# FH-411R

### SERVICE MANUAL

AEP Model E Model Australian Model



• FH-411R is composed of following models. As for the service manual it is issued for each component model, then plese refer to it.

#### **COMPONENT MODEL NAME FOR FH-411R**

TUNER, DECK, AMPLIFIER	HST-H411
SPEAKER	SS-H311

#### **SPECIFICATIONS**

Power requirements AEP,G,IT,EE model:

220V AC, 50/60Hz

E, EA, AUS model:

110-120V or 220-240V AC

adjustable 50/60Hz

Power consumption

Supplied accessories

65watts

Dimensions

Approx.  $595\times270\times250$ mm (w/h/d)

 $(23\frac{1}{2} \times 10\frac{3}{4} \times 10 \text{ inches})$ 

incl. projecting parts and controls.

Weight

Approx. 9.5kg (20 lb 15 oz) net RM-S190 Remote commander (1)

SONY SUM-3 (NS) batteries (2)

AM loop antenna (1)

Design and specifications subject to change without notice.

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.

Replace only with part number specified.

#### **PARTS LIST**

#### NOTE:

Items marked "★" are not stocked since they are seldom required for routine Some delay should be anticipated when ordering these items.

G Germany model : Fast European model AUS: Australian model IT Italian model

: Saudi Arabia model

#### ACCESSORY & PACKING MATERIAL

1-465-249-11 REMOTE COMMANDER (RM-S190) 2-181-754-01 COVER, BATTERY(for RM-S190)

1-501-349-11 ANTENNA, LOOP

.....ADAPTOR, CONVERSION 2P △1-569-007-11 △1-569-008-11 (AUS, EA).....ADAPTOR, CONVERSION 2P

3-752-778-11 (AEP, E, EA, AUS).....MANUAL INSTRUCTION (English, French, Spanish, Chinese)

3-752-778-41 (AEP,G,IT).....MANUAL INSTRUCTION (German, Dutch, Swedish, Italian, Portuguese)

3-752-778-51 (EE).....MANUAL INSTRUCTION (English, German, Polish, Russian)

\*4-942-341-01 .....INDIVIDUAL CARTON \*4-942-344-01 (AÉP, G, IT, EE, AUS)...INDIVIDUAL CARTON

\*4-942-340-01 CUSHION (HST)

CUSHION (SPEAKER) \*4-857-137-01

# **COMPACT HI-DENSITY** COMPONENT SYSTEM

English 91A1860-1 Printed in Japan ©1991. 1

# **HST-H411**

SERVICE MANUAL

This set is the tuner, deck and amplifier section in FH-411R.



AEP Model E Model Saudi Arabia Model Australian Model

#### **SPECIFICATIONS**

#### **Tuner Section**

System

FM stereo. FM/AM superheterodyne tuner

FM tuner section

Tuning range

87.5 - 108 MHz (except East European model) 65.0-74.0 MHz (East European model)

Antenna Antenna terminals Telescopic antenna 75 ohms unbalanced 10.7 MHz

Intermediate frequency

AM tuner section Intermediate frequency

450 kHz

#### MW/LW tuner section (for the European model)

	A W	LW Yes
Tuning range 1	531 - 1,602 kHz	153 – 281 kHz
Anterna AM loop antenna External antenna terminals		

#### LW/MW/SW tuner section (for the model for other countries)

	A SECULAR	MW	SW.∕
Tuning range to	153 - 281 kHz	531 - 1,602 kHz	5.95 – 17.9 MHz
Antenna Care	AM loop antenna External antenna terminals		

#### **Amplifier Section**

Continuous RMS power output

European model: 20 + 20 watts (6 ohms at 1 kHz, 5% THD)

Other models: 20 +20 watts (6 ohms, at 1 kHz, 5% THD)

Peak music power output (for the models other than Europe) 200 watts (6 ohms)

#### Inputs

	Sensitivity	Impedance
CD (phono jacks)	450 mV	50 kilohms
MIC (minijack)	1 mV	600 ohms
AUX (phono jacks)	450 mV	50 kilohms

#### Outputs

HEADPHONES (stereo minijack)	Accepts headphones of 8 ohms or more.
SPEAKER 1	Accepts speakers of 6 to 16 ohms.

Model Name Using Similar Mechanism	HST-404
Tape Transport Mechanism Type	DECK A: TCM-YM47CW-70M DECK B: TCM-YM47CW-71M

#### **Cassette Deck Section**

4-track 2-channel stereo Recording system

Frequency response (DOLBY NR OFF)

60 - 13,000 Hz (± 3 dB), using TYPE I cassette

(Sony HF-S) 60 - 14,000 Hz (±3dB), using TYPE II cassette

0.1% WRMS ± 0.3 % (DIN)

#### Speaker Section

Speaker system

Wow and flutter

Speaker units

Enclosure type Frequency range

Sensitivity Impedance Dimensions

Weight

2 way 2 speaker system Woofer: 14 cm dia., cone type Tweeter: 5 cm dia., cone type

Bass reflex 70 Hz - 20 kHz 88 dB/W/m 6 ohms

Approx. 185 x 270 x 220 mm (w/h/d) (7 1/4 × 10 5/8 × 8 3/4 inches) Approx. 2.7 kg (6 lb) net per speaker

- Continued on page 2-





#### General

Power requirements

European model: 220 V AC, 50/60 Hz

Model for other countries:

110 - 120 V or 220 - 240 V AC adjustable.

Power consumption Dimensions

European model: 65 watts Model for other countries: 65 watts Approx.  $595 \times 270 \times 250 \text{ mm (w/h/d)}$ (23 $^{1}/_{2} \times 10^{3}/_{4} \times 10 \text{ inches)}$ 

Weight Supplied accessories

incl. projecting parts and controls Approx. 9.5 kg (20 lb 15 oz) net RM-S190 Remote Commander (1) SONY SUM-3 (NS) batteries (2)

AM loop antenna (1)

Design and specifications subject to change without notice.

This appliance conforms with EEC Directive 87/308/EEC regarding interference

#### **Overview**

#### Tuner section

· Consult the below chart for the band stations receivable for the model available in your country.

European model	LW/MW/FM
Model for other countries	LW/MW/SW/FM

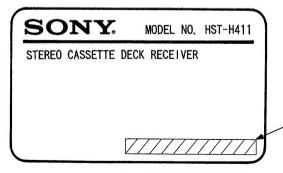
. You can store up to 25 stations in the memory.

#### **Amplifier section**

- DBFB (Dynamic Bass Feedback) system of the European models, or SAT (Super Acoustic Turbo) system of the model for other countries reinforces bass sound.
- 5-band stereo graphic equalizer adjusts the sound quality to your preference during playback.

#### Cassette deck section

- · Double decks allow you to:
  - dub tapes.
  - play back one deck then the other successively.
  - MODEL IDENTIFICATION (Specification Label)



#### TABLE OF CONTENTS

Section	Page
SECTION 1 GENERAL	. 3
SECTION 2 DISASSEMBLY	. 6
SECTION 3 MECHANICAL ADJUSTMENT	. 6
SECTION 4 ELECTRICAL ADJUSTMENT	. 7
SECTION 5 DIAGRAMS	
5-1. Semiconductor Lead Layouts	10
5-2. Circuit Boards Location	· 10
5-3. Printed Wiring Boards	· 11
5-4. Schematic diagram	
— Deck AMP Section — ·····	· 15
IC Block diagrams	· 17
5-5. Schematic diagram	
— Tuner Section —	• 19
SECTION 6 EXPLODED VIEWS	23
SECTION 7 ELECTRICAL PARTS LIST	· 27

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.

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#### SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK A OR DOTTED LINE WITH MARK A ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUB-LISHED BY SONY.

4-942-612-01: E/ Australian mode! 4-942-612-11: Saudi Arabia model

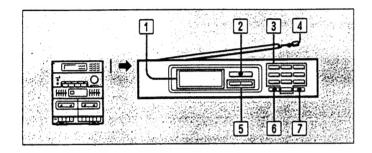
 $\left\{ \begin{array}{ll} 4-942-613-01 \\ 4-942-613-11 \end{array} \right\}$  : AEP model

4-942-614-01: East European mode! 4-942-615-01: Germany model 4-942-616-01: Italian model

### SECTION 1 GENERAL

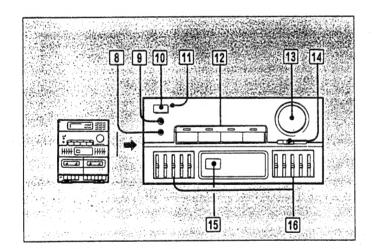
This section is extracted from instraction manual.

# Parts Identification



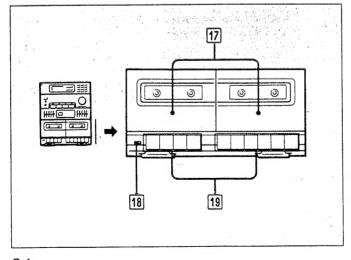
#### **Tuner Section**

- 1 Display window
- 2 BAND selector
- PRESET STATION buttons
- 4 Telescopic antenna
- TUNING +/- buttons
- MEMORY button
- 1 ENTER button



#### **Amplifier Section**

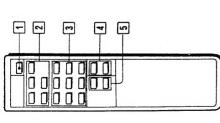
- HEADPHONES jack (stereo minijack)
- i MIX MIC (microphone) jack (minijack)
- 10 POWER switch
- TI STANDBY indicator It is lit as long as the AC power cord is connected to a wall outlet.
- 12 Function selectors
- 13 VOLUME control
- 14 BALANCE control
- 15 REMOTE SENSOR
- 16 5-band stereo graphic equalizer



#### Cassette Deck Section

- T Cassette holder
- B DOLBY NR switch
- 19 Tape operation buttons
  - : PLAY (playback) button
  - ◄ : REW (rewind) button
  - ►► : FF (fast forward) button
  - ≜ : STOP/EJECT button
  - : REC (record) button and indicator
  - II : PAUSE button

34



- TUNER PRESET +/- buttons CD player operation buttons VOL (volume) +/- buttons Function select buttons ----
- Touches d'exploitation du lecteur CD Touches de volume (VOL +/-) Interrupteur d'alimentation (POWER) Touches de sélection de fonction

- Touches de stations préréglées (TUNER PRESET +/-)
- Teclas de operación del reproductor de discos compactos Teclas de volumen (VOL +/-) Teclas de sintonía memorizada (TUNER PRESET +/-) Interruptor de alimentación (POWER) Teclas selectoras de función

- ■射唱後操作被鈕[CD] 音量按鈕[VOL +/--] 電源期限[POWER]
   功能選擇按鈕
   電料關機業作接鈕[CI
   者量按鈕[VOL +/一]
   期階機預算按鈕[TUN
- 類諧模預期按鈕[TUNER PREST +/-]

# Battery Installation/Mise en place des piles/Instalación de las pilas/ 電池装法

Duración de las pilas Empleando pilas SUM-3 (NS) Sony, podrá espera medio año de operación normal. Cuando las pilas se agolen, el telemando no podrá controlar le isstema estéreo. Reemplace ambas pilas por otras nuevas. Antes de la operación, instale dos pilas R6 (tamaño AA). When the batteries are exhausted, the remote commander cannot operate the stereo system. Replace both batteries with Battery life
About half a year of normal operation can
be expected when using the Sony SUM-3 Before operation, install two R6 (size AA) batteries.

Para evitar la fuga del electrólito To avoid battery leakage
When the commander is not to be used for a long period of time, remove the batteries to avoid damage caused by battery leakage

new ones.

Cuando no vaya a emplear el telemando durante mucho itempo, extraiga las pilas a fin de evitar el daño que podría causar el electrólito de las mismas.

操作选控器以前,請先數人2個H6號 (AA尺寸)電池

Avant d'utiliser la télécommande, mettre

deux piles R6 (format AA).

**建治院** 

Autonomie des piles Des piles Sony SUM-3 (NS) assurent

電池電力搭框盘, 选控器便失去选 SONY SUM-3 (NS) 法治师任 **約達下年之久(在正常操作状態下)** 控功能 過此情形消數機構電池 télécommande ne peut plus commander la chaîne stéreo. Remplacer les deux piles par environ six mois d'autonomie dans le cadre

Lorsque les piles sont épuisées, la

春長期不使用遙控器。請取出電池。 以免電池液準漏損及機體。 電池液泄漏之防止

Pour éviter une fuite des piles Si a télécommande ne doit pas être utilisée pendant longtemps, enlever les piles pour éviter tout dommage do à une fuite d'électrolyte et à la corrosion.

Sony Corporation Printed in Malaysia

# **Precautions**

On operating voltage

Before operating the stereo system, check that the operating voltage of your system is identical with the voltage of your local power

110 - 120, 220 - 240 V AC adjustable, 50/60 Hz European model | 220V, 50/60 Hz Model for other countries

- The unit is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the unit itself has been turned off.
- Unplug the system from the wall outlet if it is not to be used for an extended period of time. To disconnect the cord, pull fout by the plug, Never pull the cord tiself. Into the component, unplug the system and have the component, unplug the system and have the component tolecked by qualified personnel before operating it any further.

  The nameplate indicating operating.
  - voltage, etc. is located at the rear of the
- AC power cord must be changed only at the qualified service shop.

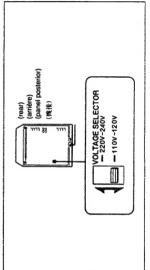
concerning your stereo system, please consult your nearest Sony dealer. if you have any question or problem

# **Preparations**

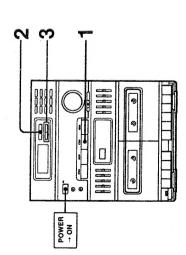
# See illustration on the left.

220 – 240 V AC. Before connecting the AC power cord to a wall outlet, check that the voltage selector at the rear is set to the local power line voltage. If not, reset the selector Adjusting the operating voltage This unit operates on either 110 - 120 or

Place the stereo system in a location with adequate ventilation to prevent internal heat build-up in the system.



uning in Manually kyntonisation manuelle intonía manual



TUNED: Appears when a station of sufficient signal strength is tuned in.
STEREO: Appears when an FM stereo program of sufficient signal strength is received. Indication on the display

See the illustrations on the left for operation.

# Changing the MW Tuning Interval

If you use a system where the frequency allocation system is different from the preset interval, change the interval as follows. The MW tuning interval is preset at the factory to 9 kHz.

- 1 Turn on the power.
- Tune in any MW station.
  - 3 Pull out the plug.
- 4 Plug in the unit again while pressing the TUNING + button.

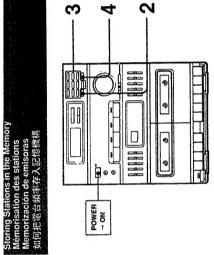
To reset the interval, follow the same procedure.

2

Important
When the interval is changed, stored
stations will be erased from the memory.

Select band. Choisir la gamme. Elija la banda.

2



Tune in a desired station. Syntoniser la station à mémoriser. Sintonice la emisora deseada. 接收一個希望記憶的電台。



If the MEMORY indication goes off before

you press a preset number Press MEMORY again, and then enter a

preset number.

4 15 16

station préréglée. Elija un número de memorización Select a preset station number.
Choisir un des numéros de **麦排一個要存入的電台號碼。** 

7

To select a preset station number greater

How many stations can be stored in the

Up to 25 stations can be stored.



Repeat these steps for each station to be preset. Repéter ces démarches pour chacune des stations à mémoriser. Repita estos procedimientos para cada una de las emisoras que desee S

每一個希望記憶的電台都按照上述步驟進行。

If you leave the unit disconnected from the wall outlet for more than one month, stored stations may be erased from memory. In this case, store the stations again.

No. erasing only is not possible, but storing

Can a previously stored station be

a new station erases the previously stored

Press MEMORY and then press the correct

number.

When you have pressed a wrong preset

(e.g. to select 23) Press  $\begin{bmatrix} 2 \end{bmatrix} \rightarrow \begin{bmatrix} 3 \end{bmatrix}$ 

# Radio

See the illustrations on the left for operation.

# To Tune in a Preset Station

- Select the preset station number.
- 2 Press ENTER while the selected number is displayed.

4

TUNING -

Select station.
Choisir la station.
Elija la emisora.

3

MW/SW/LW

Antenna adjustment Réglage de l'antenne Ajuste de la antena

天線之調整

4

Trouver la meilleure localisation Busque la mejor orientación. 請調節在接收就應執好之處。

Find the best location

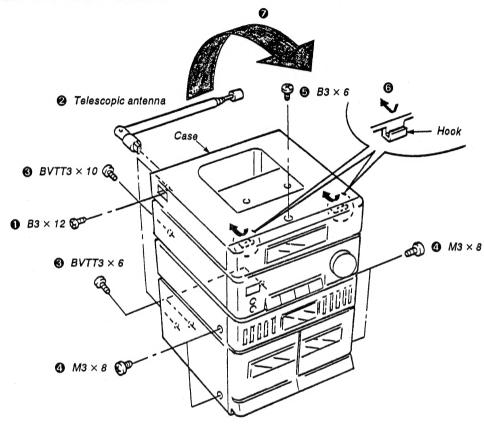
## SECTION 2 DISASSEMBLY

Note: Follow the disassembly procedure in the numerical over given.

#### 2-1. Case Removal

- 1. Remove the ① screw +B 3×12, next similar way the ② telescopic antenna.
- 2. Remove the seven screws. (3 to 5)
- 3. Press the two hooks 6 with your fingers to remove the lock, then remove the case by 1 lifting it upward.

Coution: Be careful not to break off the hooks.



# SECTION 3 MECHANICAL ADJUSTMENT

#### **PRECAUTION**

1. Clean the following parts with a denatured-alcohol-moistened swab:

record/playback heads pinch rollers erase heads rubber belts capstan idlers

- 2. Demagnetize the record/playback head with a head demagnetizer.
- 3. Do not use a magnetized screwdriver for the adjustments.
- 4. After the adjustments, apply suitable locking compound to the parts adjusted.
- 5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

Torque	Torquement	Meter reading
FWD	CQ-102C	30-70g•cm (0.42-0.97oz•inch)
FWD Back tension	CQ-102C	1.5-5.5g·cm (0.020-0.076oz·inch)
FF, REW	CQ-201B	63g•cm or more (0.87oz•inch or more)

## SECTION 4 ELECTRICAL ADJUSTMENT

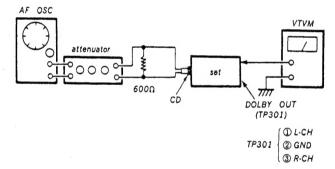
- Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head demagnetizer close to the erase head.)
- 2. Do not use a magnetized screwdriver for the adjustments.
- After the adjustments, apply suitable locking compound to the parts adjusted.
- 4. The adjustments should be performed with the rated power supply voltage unless otherwise noted.
- The adjustments should be performed in the order given in this service manual. (As a general rule, playback circuit adjustment should be completed before performing recording circuit adjustment.)
- 6. The adjustments should be performed for both L-CH and R-CH.
- Switches and controls should be set as follows unless otherwise specified.

DOLBY NR switch: OFF GEQ RV: CENTER ISS switch: 1 FUNCTION: CD

• Standard Record:

Deliver the standard input signal level to the input jack and set the REC LEVEL control to obtain the standard output signal level.

Mode: record



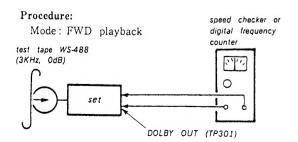
#### Standard Input Level

	CD
source impedance	600Ω
input level	0.46V (-4.6dB)

#### Standard Output Level

	DOLBY OUT
load impedance	
output level	0.4V (-5.7dB)

#### Tape Speed check

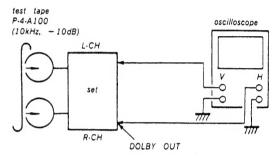


Specification:

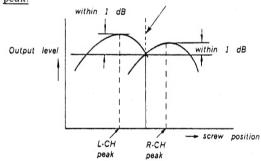
#### Record/Playback Head Azimuth Adjustment

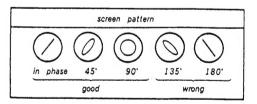
Note: Perform this adjustments for both decks. Procedure:

1. Mode: FWD playback



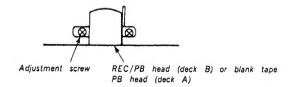
 Turn the adjustment screw and check output peaks. If the peaks do not match for L-CH and R-CH, turn the adjustment screw so that outputs match within 1 dB of peak.





3. After the adjustments, apply suitable locking compound to the parts adjusted.

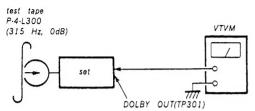
#### Adjustment Location:



#### Playback Level Adjustment

#### Procedure:

Mode: FWD playback



#### Adjust.

DECK-A side RV321 (L-CH), RV421 (R-CH) DECK-B side RV331 (L-CH), RV431 (R-CH) so that the specifications are satisfied.

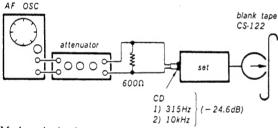
DOLBY OUT level: 0.38 to 0.42V (-6.2 to -5.2 dB)

level difference between the channels: within 1.0dB

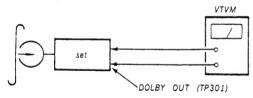
#### Record BIAS Current Adjustment

#### Procedure:

1. Mode: record



Mode: playback



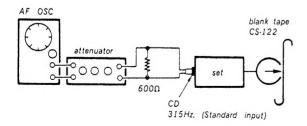
Play back the recorded in step 1. If the specification is not satisfied, adjust RV361 (L-CH), RV461, (R-CH) and repeat steps 1 and 2.

The DOLBY OUT level of 10 kHz signal relative to that of 315 Hz: -1 to 1dB

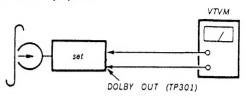
#### Record Level Adjustment

#### Procedure:

1. Mode: record



2. Mode: playback



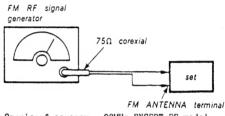
Play back the recorded in step 1. If the specification is not satisfied, adjust RV341 (L-CH), RV441 (R-CH) and repeat steps 1 and 2.

DOLBY OUT level: 0.45 to 0.36V (-4.7 to -6.7dB)

#### FM SECTION

#### FM Discriminator Alignment (NULL Check)

EE: East European model Setting:



Carrier frequency : 98MHz:EXCEPT EE model

70MHz: EE model : 1kHz, 75kHz deviation : 1mV (60 dB) Modulation Output level

VOM (DC range) CNP101

#### Procedure:

- Push the TUNING (+,-) button for 98 MHz: EXCEPT EE model or 70 MHz:EE model.
- 2. Adjust IFT101 for OV reading on the VOM.

Note: FM tuned indication lighting level adjustment should be made after FM discriminator alignment.

#### FM Tuned Indication Lighting Level Adjustment

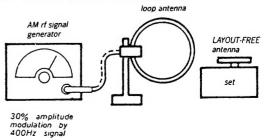
BAND select switch: FM

- 1. Output 32 μV (30 dB), 98 MHz: EXCEPT EE model or 70 MHz: EE model from FM RF signal generator.
- 2. Adjust RV101 so that the LCD TUNED light up.

#### AM SECTION

#### Setting:

BAND selector switch: MW , LW or SW



• Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitions.

#### MW Tuned Indication Lighting Level Adjustment

#### BAND select switch: MW

- 1. Output  $0.42 \, \mathrm{mV}$  (52dB), 1,404kHz from AM RF signal generator.
- 2. Adjust RV102 so that the LCD TUNED light up.

#### LW OSC Voltage Adjustment

#### Procedure:

- 1. Connect the VOM to D002-2 cathode (VT).
- Set the BAND selector switch to LW.
- Push the TUNING (+, -) button for 153kHz(IT:144kHz).
   Adjust L001 for 0.9 to 1.1V reading on the VOM
- Push the button for 281kHz(IT:288kHz). Adjust CT001 for 6.8 to 7.2V reading on the VOM.

LW TRACKING A	DJUSTMENT
Adjust for a maximu	m reading on VTVM.
270kHz	162 <b>k</b> Hz
CT005	L010

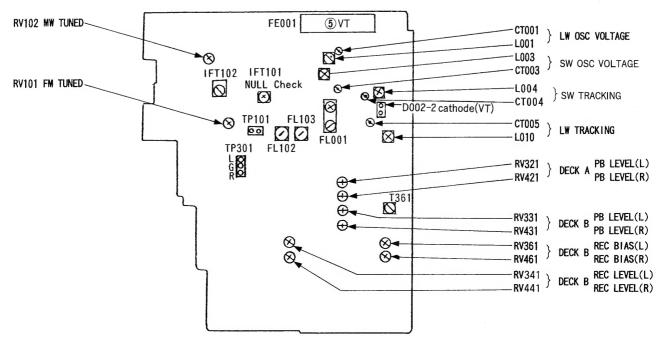
SW OSC Voltage Adjustment (E, Saudi Arabia, Australian model)

#### Procedure:

- 1. Connect the VOM to FE001(5) pin(VT).
- 2. Set the BAND selector switch to SW.
- Push the TUNING (+, -) button for 5.95MHz. Adjust L003 for 0.9 to 1.1V reading of the VOM.
- Push the button for 17.9MHz. Adjust CT003 for 8.3 tp 8.7V reading on the VOM.

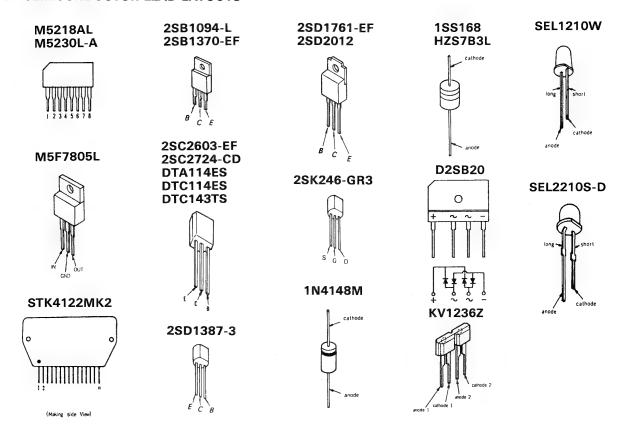
SW TRACKING ADJUSTMENT						
Adjust for a maximu	m reading on VTVM.					
17MHz	7MHz					
CT004	L004					

#### Adjustment Location: main board — Component side—

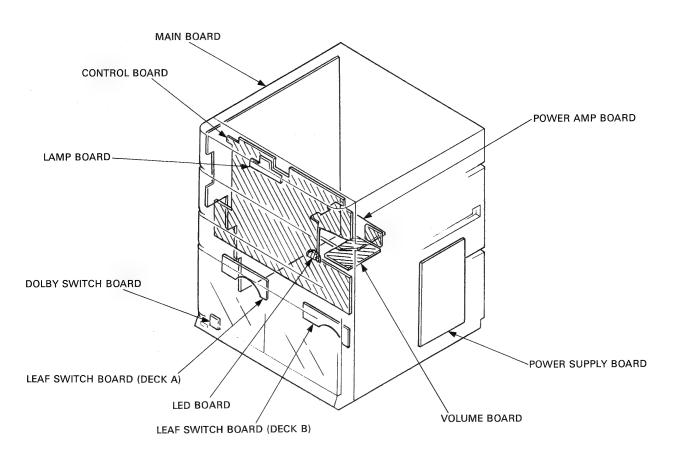


# SECTION 5 DIAGRAMS

#### 5-1. SEMICONDUCTOR LEAD LAYOUTS



#### 5-2. CIRCUIT BOARDS LOCATION



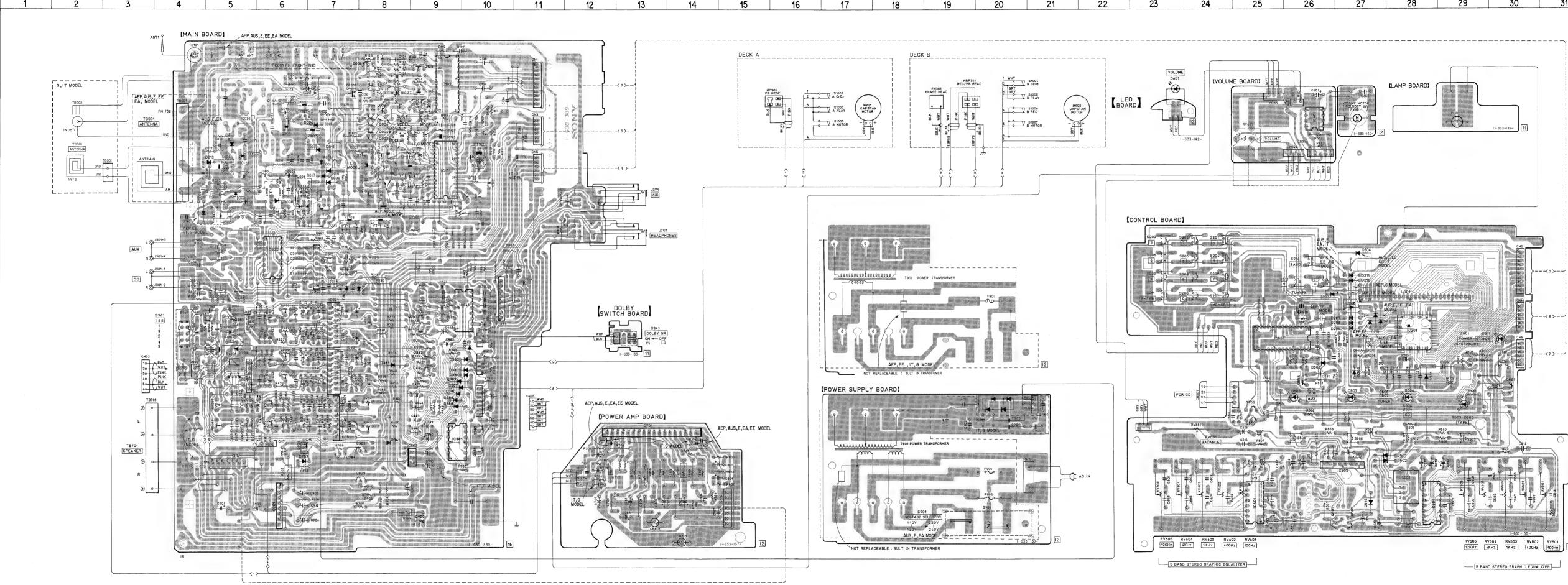
#### 5-3. PRINTED WIRING BOARDS

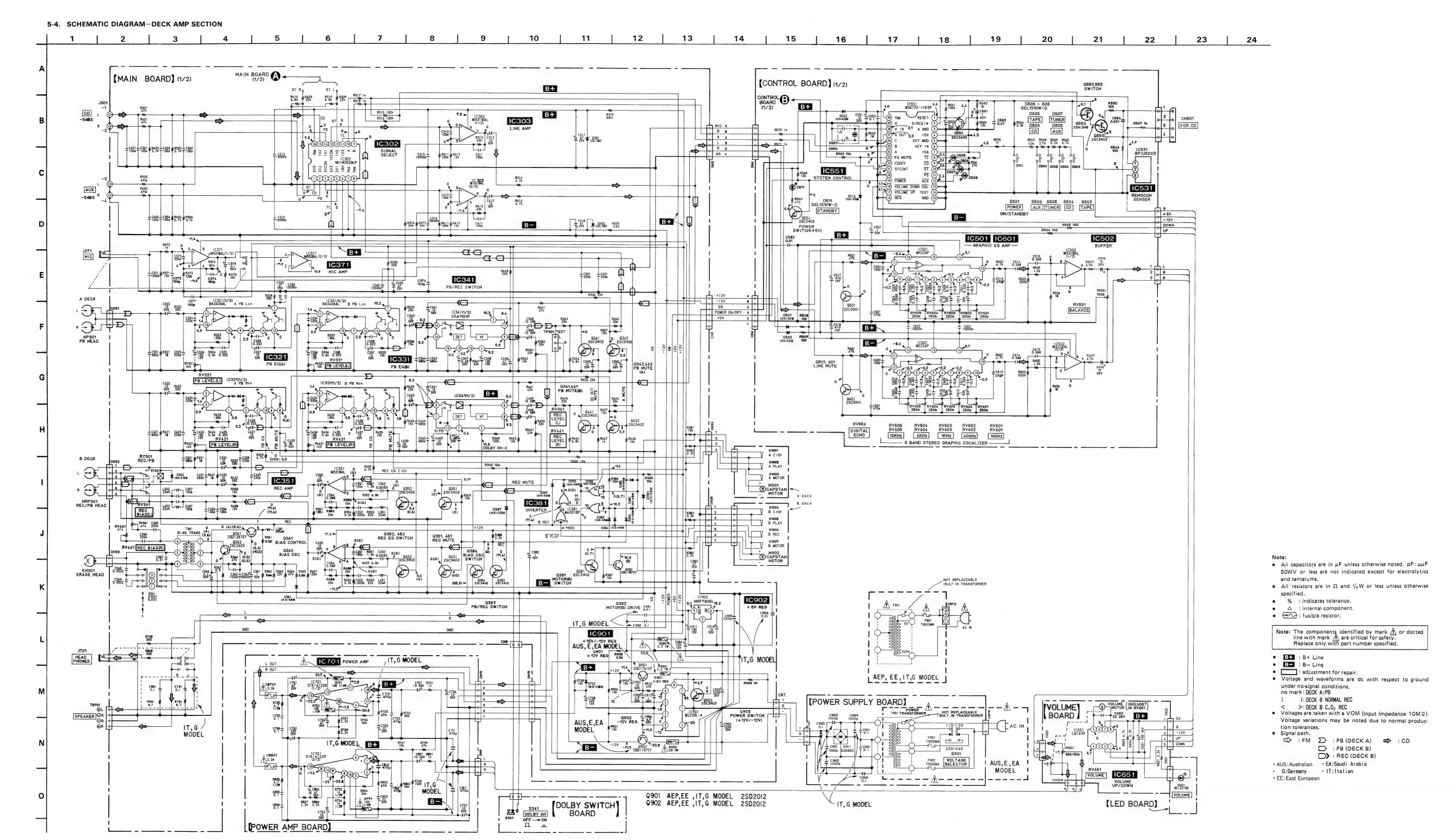
Note:	_					
• o: parts extracted from the component side.		1	2	3	4	

- : parts extracted from the conductor side.
  : parts mounted on the conductor side.
  indicates side identified with part number.
- Pattern on the side which is seen
- AUS : Australian EA: Saudi Arabia
- G: Germany IT: Italian
- G: Germany II:
   EE: East European

#### Semiconductor Location

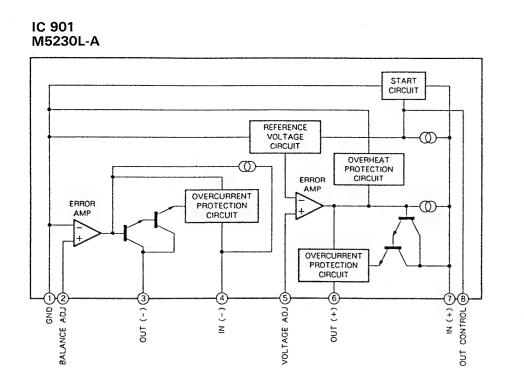
Ref. No.	Location	Ref. No.	Location	
D 0 0 1 - 1 (AUS, E, EA) D 0 0 1 - 2 (AUS, E, EA) D 0 0 2 - 1 D 0 0 2 - 2 D 0 0 3 D 0 0 4 (AUS, E, EA) D 0 0 5	C-7 C-5 C-6 D-5 D-7 D-4 D-6	C 3 2 1   C 3 3 1   C 3 4 1   C 3 5 1   C 3 7 1   C 3 8 1   C 5 0 1	F-7 G-7 F-10 H-7 F-10 I-9 J-28	
D 0 0 6 D 0 1 1 (AUS, E, EA) D 0 1 3 (AUS, E, EA) D 0 1 4 (AUS, E, EA) D 0 1 8 D 0 1 7 D 2 0 1	C-7 C-7 C-5 C-5 D-7 D-7 H-2 8 G-2 7	C 5 0 2   C 5 3 1   C 5 5 1   C 6 0 1   C 6 5 1   C 9 0 1   C 9 0 2	-2 7   J - 2 8   G - 2 5   J - 2 5   C - 2 6   J - 6   I - 9	
D 2 0 3 (AUS, E, EE, EA, IT) D 2 0 4 (AUS, E, EE, EA, IT) D 2 0 5 (AEP, EE, G) D 2 0 7 D 2 0 8 D 2 0 9 D 2 1 1	F-2 6 E-2 7 F-2 7 F-2 7 G-2 7 G-2 7 F-2 7	Q 0 0 1 Q 0 0 2 Q 0 0 3 Q 0 0 4 Q 0 0 5 Q 0 0 6 Q 0 0 7 Q 0 0 8 (AUS, E, EA)	D-8 C-8 B-9 C-8 B-9 C-8 B-8	
D 2 1 4 (AEP, EE) D 2 1 5 (AUS, E, EE, EA, IT) D 2 1 6 (AUS, E, EE, EA) D 3 0 1 D 3 0 2 D 3 6 1 D 3 6 2 D 3 8 1	G-27 F-27 G-27 F-7 I-8 G-5 G-8	Q 0 0 9 (AUS, E, EA) Q 0 1 0 Q 0 1 1 Q 0 1 2 Q 0 1 3 (IT, G) Q 1 0 1 Q 1 0 3	B-8 D-6 E-7 D-7 C-8 C-1 0 B-9 B-8	
D 3 8 2 D 3 8 3 D 3 8 4 D 3 8 5 D 3 8 6 D 3 8 7 D 3 8 8 D 3 8 8	G-1 0 G-1 0 H-1 0 G-1 0 H-9 H-9 H-9	Q 1 0 5 Q 1 0 6 Q 2 0 1 Q 3 4 1 Q 3 4 2 Q 3 5 1 Q 3 5 2 Q 3 6 1	B-9 B-8 G-29 F-9 G-9 H-7 H-6 F-5	
D 3 9 0 D 5 0 1 D 5 0 2 D 5 0 3 D 5 0 5 D 5 0 6 D 5 0 7 D 5 0 8	H-9  -28  -28 G-26 H-29 H-28 H-28	Q 3 6 2 Q 3 8 1 Q 3 8 2 Q 3 8 3 Q 3 8 4 Q 4 4 1 Q 4 4 2 Q 4 5 1	F-5 I-10 I-10 I-8 I-7 G-9 G-9 I-7	
D 5 1 1 D 5 1 2 D 6 5 1 D 7 5 2 D 9 1 1	G-3 0 J-2 7 B-2 3 I-6 H-2 0	Q 4 5 2 Q 5 0 1 Q 5 5 1 Q 5 5 2 Q 5 5 3 Q 5 5 4	I-6 J-27 H-30 H-25 H-25 H-26	
C 1 0 1   C 1 0 2   C 2 0 1   C 3 0 2   C 3 0 3	D-9 B-9 G-28 E-6 F-7	Q 6 0 1 Q 9 0 1 Q 9 0 2 Q 9 0 3	J-26 I-6 J-9 J-8	

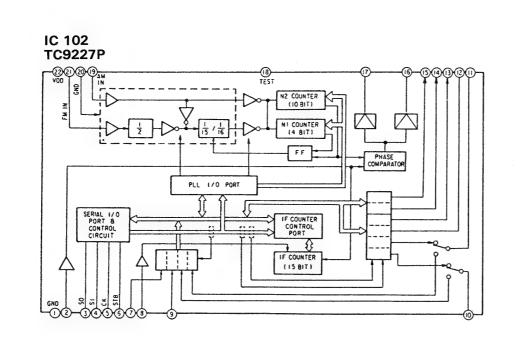


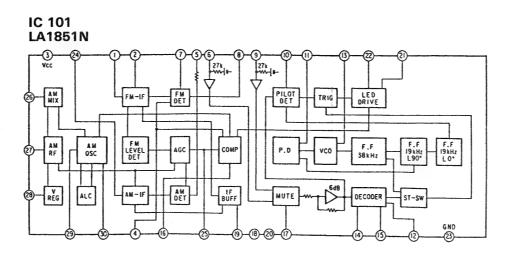


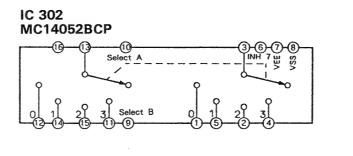
-18-

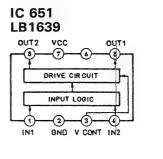
#### ● IC Block Diagrams

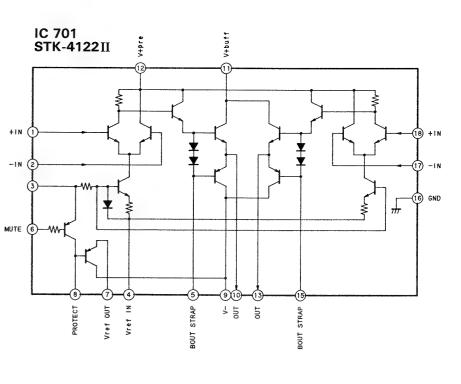












#### 5-5. SCHEMATIC DIAGRAM—TUNER SECTION—

# • All capacitors are in $\mu F$ unless otherwise noted. pF: $\mu \mu F$ 50WV or less are not indicated except for electrolytics and tantalums.

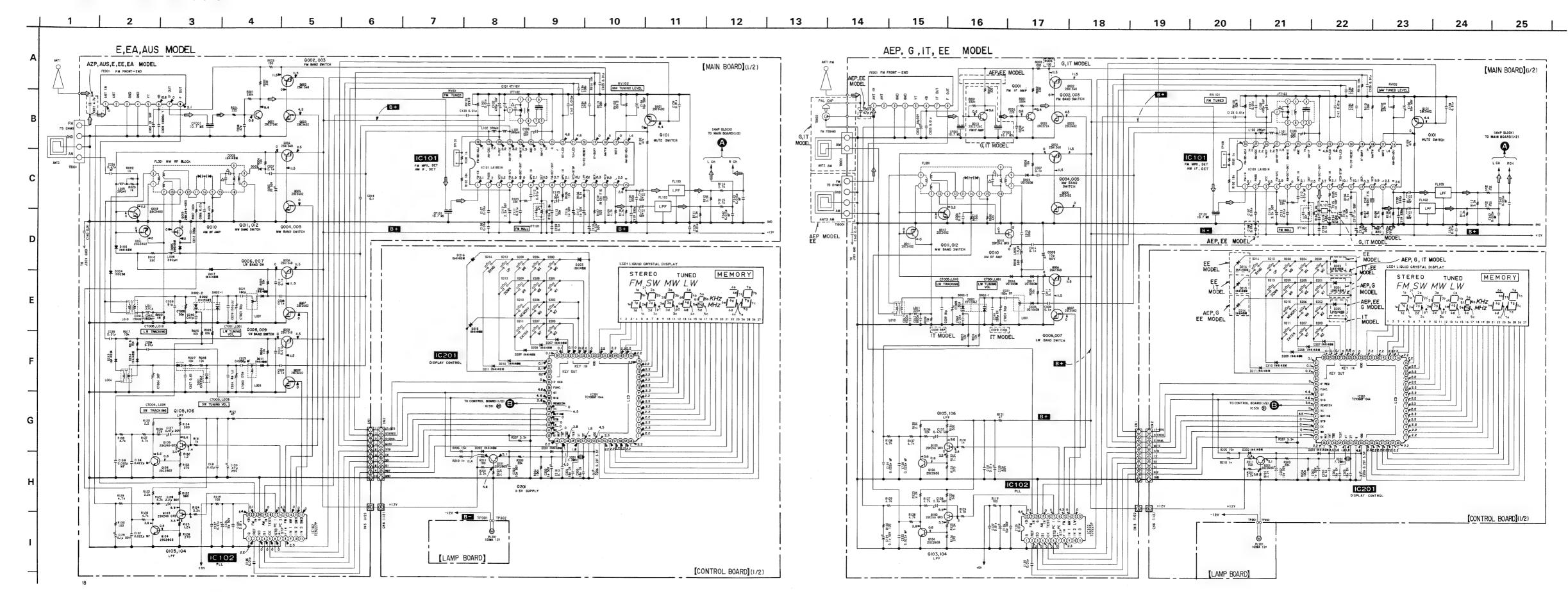
- $\bullet$  All resistors are in  $\Omega$  and  ${}^{t}\!/_{\!4}W$  or less unless otherwise specified.
- % : indicates tolerance.
- \( \triangle \): internal component.
  \( \triangle \): fusible resistor.

Note: The components identified by mark  $\bigwedge$  or dotted line with mark  $\bigwedge$  are critical for safety. Replace only with part number specified.

- B+ : B+ LineB- : B- Line
- adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
   no mark: FM
- Voltages are taken with a VOM (Input Impedance 10M  $\Omega$ ). Voltage variations may be noted due to normal production tolerances.
- Signal path.⇒ : FM

• AUS: Australian • EA: Saudi Arabia • G: Germany • IT: Italian

• EE: East European



# SECTION 6 EXPLODED VIEWS

#### NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "\*" are not stocked
- since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts
   Example:

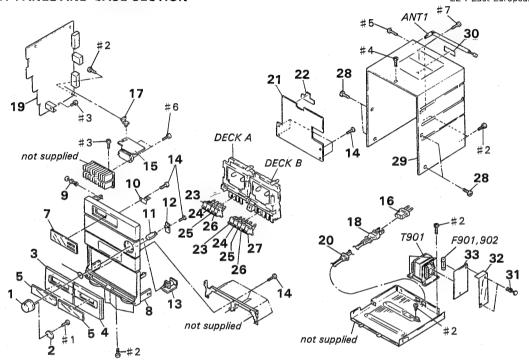
#### KNOB, BALANCE(RED)...(WHT)

Parts' Color Cabinet's Color

 Screw(#mark) list is given in the last of this parts list.

- · AUS: Australian · EA: Saudi Arabia
- G: Germany IT: Italian
- EE : East European

#### 6-1. FRONT PANEL AND CASE SECTION

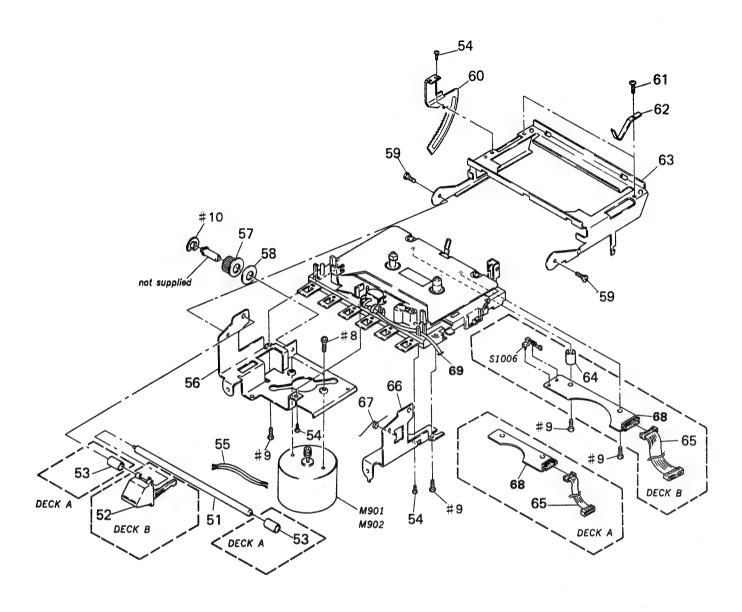


Ref. No.		Part No.	Description	Remark
1		4-022-700-01	KNOB (VOLUME)	
2	ı.	1-633-142-11		
3	Ŧ		LID (A) ASSY, CASSETTE	5
4			LID (B) ASSY, CASSETTE	5
5			WINDOW (CASSETTE)	٧.
6		4-925-554-01	, ,	
7	Ŧ		PLATE (ST), ORNAMENTAL	
8			PANEL ASSY (AEP/EE/E/AUS/EA/IT	)
			PANEL ASSY (G)	,
9			RIVET NYLON, 3, 5	
10			BRACKET (CASE)	
11	Ċ		BUTTON (DOLBY)	
12	*		DOLBR SW BOARD	
13			VOLUME BOARD	
14	•		SCREW. +BV (2.6X8) TAPPING	
15	4		POWER AMP BOARD, COMPLETE (G/IT	١
15			POWER AMP BOARD, COMPLETE	′
, 0	т	N 4041 410 N	(AEP/EE/E/AUS/	FA)
16	Δ	1560-007-11	ADAPTER, CONVERSION 2P (E)	LNy
16			ADAPTER. CONVERSION 2P (AUS/EA	١
17			HOLDER, PC BOARD	,
18			CORD, POWER (AEP/EE/EA/G/IT)	
18	_		CORD, POWER (E)	
18			CORD, POWER (AUS)	
19			MAIN BOARD. COMPLETE (E/AUS/EA	١
19	-		MAIN BOARD, COMPLETE (EE)	,
19			MAIN BOARD, COMPLETE (AEP)	
			MAIN BOARD, COMPLETE (ALF)	
19			MAIN BOARD, COMPLETE (IT)	
13	Ŧ	WILL ALOR	minin bonno, comi elit (11)	

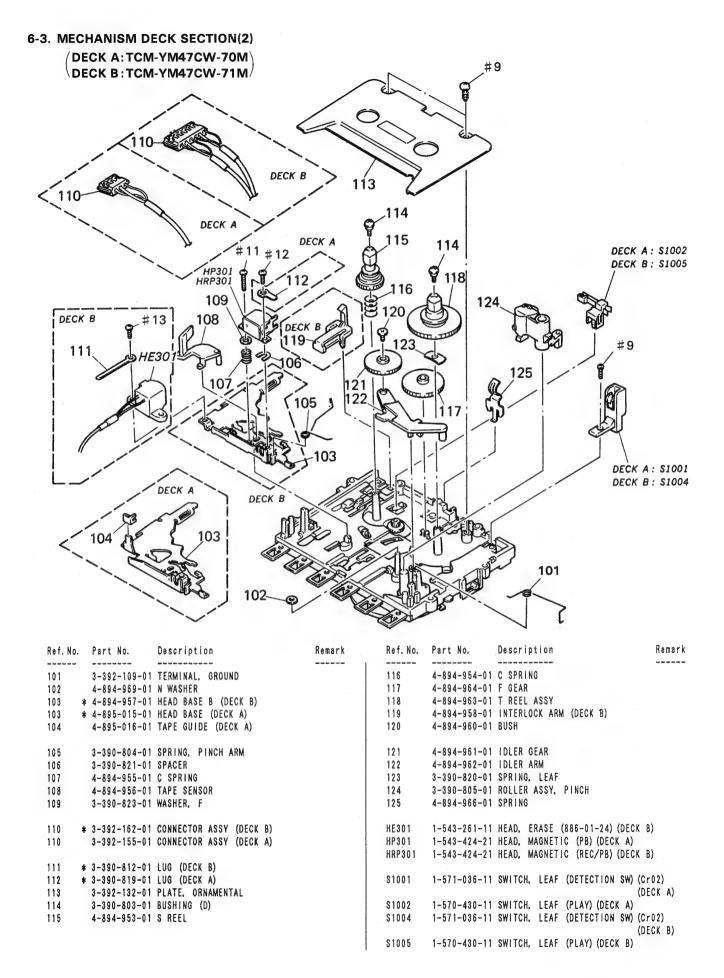
Ref.	۱o.	Part	No.	Description	Remark
20	Δ	3-70	 3-571-00	BUSHING (S) (4516), CORD (E)	
20	<b></b> ★	3-70	3-244-00	BUSHING (2104), CORD	
				(AEP/EE/AUS/EA/G/	(T)
21	*	A-43	41-472-A	CONTROL BOARD, COMPLETE (E/A	US/EA)
21	*	A-43	41-799-A	CONTROL BOARD, COMPLETE (EE)	
21	*	A-43	41-846-A	CONTROL BOARD, COMPLETE (AEP	)
21	*	A-43	45-253-A	CONTROL BOARD, COMPLETE (G)	
21	*	A-43	45-410-A	CONTROL BOARD, COMPLETE (IT)	
22	*	1-63	3-139-11	LAMP BOARD	
23				BUTTON (TC)(▶)	
24		4-92	8-697-61	BUTTON (TC)(◀◀)	
25		4-92	8-697-71	BUTTON (TC)(▶▶)	
26		4-92	8-697-81	BUTTON (TC) ( )	
27		4-92	8-697-91	BUTTON (TC) ( 11 )	
28		3-70	4-366-01	SCREW (CASE) (M3X8)	
29				CASE ASSY (G/IT)	
29		A-43	23-789-A	CASE ASSY (AEP/EE/E/AUS/EA)	
30	*	4-92	8-654-01	LABEL (AUX)	
31		4-81	2-134-00	RIVET NYLON, 3.5	
32	*	4-92	8-677-01	COVER (INSULATING)	
33	*	1-633	3-138-11	POWER SUPPLY BOARD	
ANT1		1-50	1-270-00	ANTENNA, TELESCOPIC	
F901	Δ	1-532	2-215-00	FUSE (0.8A) (E/AUS/EA)	
F902	Δ	1-532	2-215-00	FUSE (0.8A)	
T901	Δ	1-449	9-544-11	TRANSFORMER, POWER (E/AUS/EA	)
T901	Δ	1-449	-618-11	TRANSFORMER, POWER (AEP/EE/G	/IT)

#### 6-2. MECHANISM DECK SECTION(1)

(DECK A:TCM-YM47CW-70M) DECK B:TCM-YM47CW-71M)

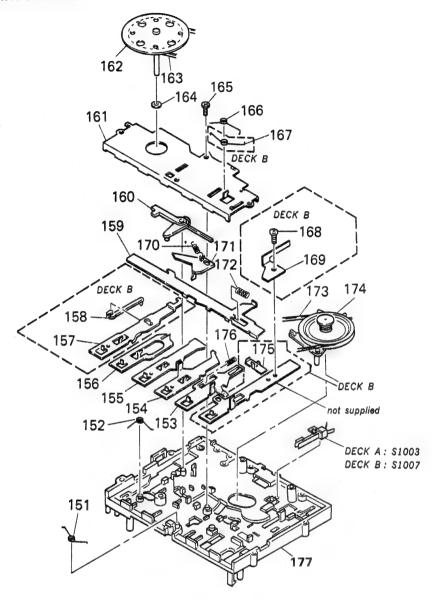


Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	* 3-392-111-01	SHAFT (S), BUTTON		65	* 3-392-161-01	CONNECTOR ASSY (DECK B)	
52		BUTTON (TC-REC) (DECK B)		65		CONNECTOR ASSY (DECK A)	
53	3-392-123-01	SPACER (DECK A)					
54	3-392-133-01	SCREW, D PAN		66	* 3-392-118-01	BRACKET, MD	
55	* 3-392-157-01	LEAD, MOTOR		67	3-392-112-01	SPRING	
56	* 3-392-119-01	HOLDER ASSY, MOTOR		68	1-631-562-1	I A BOARD (DECK B)	
57	4-895-001-01	GEAR		68	1-631-563-1	I B BOARD (DECK A)	
58	3-392-122-01	WASHER, P					
59	3-392-121-01	SCREW, STEP		69	* 3-392-163-0	CONNECTOR ASSY (DECK B)	
60	* 3-392-120-01	RACK, GEAR		M901	X-3390-802-	1 MOTOR ASSY (DECK A)	
				M902	X-3390-802-	1 MOTOR ASSY (DECK B)	
61	3-392-153-01	SCREW, D PAN		\$1006	1-571-714-1	1 SWITCH, LEAF (REC) (DECK B)	
62	3-392-108-01	PLATE, KEEP	i				
63	4-931-114-01	HOLDER, CASSETTE					
64	* 3-392-151-01	SPACER (DECK B)					



#### 6-4. MECHANISM DECK SECTION(3)

(DECK A:TCM-YM47CW-70M) DECK B:TCM-YM47CW-71M)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	4-894-999-01	SPRING		165	3-390-822-01	BUSHING (C)	
				166	4-894-978-01	SPRING	
152	4-894-989-01	SPRING (DECK B)		167	4-894-979-01	SPRING (DECK B)	
152	3-392-116-01	SPRING, TORSION (DECK A)		168	3-392-133-01	SCRER, D PAN (DECK B)	
				169	* 3-392-150-01	PLATE, SW, REC (DECK B)	
153	* 3-390-810-01	LEVER, PLAY					
154	* 3-392-117-01	LEVER. REW		170	3-390-809-01	SPRING	
155	* 3-392-115-01	LEVER. FF		171	4-894-982-01	S ARM	
156	* 4-894-987-01			172	4-894-983-01		
				173		BELT. SQUARE	
157	* 4-894-986-01	PAUSE LEVER (DECK B)		174		POWER ARM ASSY	
158		PAUSE ARM (DECK B)		11.4	4 004 001 01	TONER ANN NOOT	
159		FUNCTION LEVER		175	* 3-390-811-01	LEVER, REC STOP (DECK B)	
160	3-392-114-01			176	3-390-827-01		
100	0 032 114 01	Alting Edeci				CHASSIS ASSY. MECHANICAL	
161	+ 3_302_112_01	REINFORCEMENT (S)		111	+ 3-392-110-01	CHASSIS ASSI, MECHANICAL	
162	3-390-806-11			01000	1 570 715 11	CWITOH LEAF (MOTOR) (REOK A)	
				\$1003		SWITCH, LEAF (MOTOR) (DECK A)	
163	3-392-152-01			\$1007	1-5/0-/15-11	SWITCH, LEAF (MOTOR) (DECK B)	
164	4-894-976-01	P WASHER	ntamental .				

# SECTION 7 ELECTRICAL PARTS LIST

CONTROL

POWER AMP

DOLBY SW

**POWER SUPPLY** 

LAMP

**VOLUME** 

LED

#### NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Screw(#mark) list is given in the last of this parts list.

• CAPACITORS:

uF:μF

RESISTORS:

- · All resistors are in ohms.
- · F:nonflammable

INDUCTOR:

SEMICONDUCTORS:

In each case,  $\mathbf{u}: \mu$ , for example:  $\mathbf{u} A \cdots : \mu A \cdots$ ,  $\mathbf{u} P A \cdots : \mu P A \cdots$ ,  $\mathbf{u} P C \cdots : \mu P C \cdots :$ 

The components identified by mark A or dotted line with mark A are critical for safety.
Replace only with part number specified.

- · AUS: Australian EA: Saudi Arabia
- G:Germany IT:Italian
- EE: East European

Ref. No.	Part No.	Description		Remark	Ref. No.	Part No.	Description			Remark
			, COMPLETE (AUS)		C510	1-124-464-11	ELECT	0.22MF 20	% 50V	
*	k A-4341-799-A	CONTROL BOARD	, COMPLETE (EE)		C511	1-136-159-00 1-124-791-11 1-162-290-31	FILM	0.033uF 5%	50 V	
*	k A-4341-846-A	CONTROL BOARD	, COMPLETE (AEP)		C512	1-124-791-11	ELECT	1. 0uF 20	% 100V	Į.
4	k A-4345-253-A	CONTROL BOARD	, COMPLETE (G)		C513	1-162-290-31	CERAMIC	470PF 10	% 50V	
. 4	* A-4345-410-A	CONTROL BOARD	, COMPLETE (IT)		C514	1-136-163-00	FILM	0.068uF 5%	50 V	
			*****							
#	* A-4341-473-A	POWER AMP BOA	ARD. COMPLETE		C515	1-136-163-00 1-126-096-11	FILM	0.068uF 5%	50 V	
			(AUS/AEP/E	/EA/EE)	C516	1-126-096-11	ELECT	10uF 20	% 35V	
*	A-4345-251-A	POWER AMP BOA	RD. COMPLETE (G/	IT)	C517	1-126-103-11	ELECT	470uF 20	% 16V	
		*****	***********  IRD, COMPLETE  (AUS/AEP/E  IRD, COMPLETE (G/  ***********************************		C518	1-126-103-11 1-126-103-11 1-123-875-11	ELECT	470uF 20	% 16V	
*	1-633-135-11	DOLBY SW BOAR	BOARD		C551	1-123-875-11	ELECT	10uF 20	% 50V	
*	k 1-633-138-11	POWER SUPPLY	BOARD							
	k 1-633-139-11	LAMP BOARD			C552	1-164-159-11	CERAMIC	0. 1uF	50 V	
1	k 1-633-140-11	VOLUME BOARD				1-124-925-11	ELECT	2. 2uF 20	% 100V	1
1	1-633-142-11	I FD BOARD			C556	1-162-294-31	CERAMIC	0.001uF 10	% 50V	
·	. , •••	*****			C557	1-124-925-11 1-162-294-31 1-124-791-11	FLECT	1. OuF 20	% 100V	1
					C581	1-124-791-11	ELECT	1. 0uF 20	% 100V	1
	1-558-350-31	CORD (WITH CO	NNECTOR) Lighting							
k	k 4-928-665-01	HOUSE (LCD).	LIGHTING		C582	1-161-379-00	CERAMIC	0.01uF 20%	25V	
•	. 4 020 000 01		210011110		C583	1-161-379-00 1-136-173-00	FILM	0. 47uF 5%	50V	
		< CAPACITOR >			0601	1-162-290-31	CERAMIC	470PF 10%	50 V	
					C602	1-162-282-31	CERAMIC	100PF 10%	50 V	
C202	1-123-875-11	FLECT	10uF 20% 50V		C603	1-162-282-31	CERAMIC	390PF 10%	50V	
C203	1-124-791-11	FLECT	1. 0uF 20% 100V			200 01	00111111110		•••	
C204	1-162-205-31	CERAMIC	18PF 5% 50V		C604	1-161-329-00	CERAMIC	0.0068uF 3	0% 16V	í
C205	1-162-205-31	CERAMIC	18PF 5% 50V		C605	1-162-294-31	CERAMIC	0. 001uF 1	0% 50\	I
C206			0. 22F 5. 5V		C606	1-162-294-31 1-161-494-00	CERAMIC	0.02245	25\	1
0200	1 120 400 11	DODLE ENTERO	0.221		C607	1-161-327-00	CERAMIC	0.0033uF 3	0% 16V	1
C210	1-164-159-11	CERAMIC	0. 1uF 50	V		1-164-159-11				
C501	1-162-290-31		470PF 10% 50	v	,,,,,	1 104 105 11	O E I I A II I I	V. 141	• • • • • • • • • • • • • • • • • • • •	
C502	1-162-282-31	CERAMIC	470PF 10% 50 100PF 10% 50 390PF 10% 50	v	C609	1-161-379-00	CERAMIC	0 01uF 20	% 251/	
C503	1-162-289-31	CERAMIC	390PF 10% 50		C610	1-124-464-11	FLECT	0.01df 20	% 50V	
C504	1-161-329-00	CERAMIC	0.0068uF 30% 16		C611	1-136-159-00	FILM	0.2241 20	50V	
0004	1-101 023 00	CLIMITO	0. 0000di 00% 10	•		1-124-791-11	FLECT	1 AuF 20	% 100V	ı
C505	1-162-294-31	CERAMIC	0.001uF 10% 50	V	C613	1-124-791-11 1-162-290-31	CERAMIC	470PF 10	% 50V	
C506	1-161-494-00		0. 022uF 25		0010	1 102 230-01	CHAMIO	71011 10	,, ovv	
C507	1-161-327-00	CERAMIC	0. 02201 20 0. 003311F 30% 16	V	C614	1-136-163-00	FILM	0 0680F 5%	50V	
C508	1-16/-150-11	CERAMIC	0.0033uF 30% 16 0.1uF 50 0.01uF 20% 25	V	C614 C615	1-136-163-00 1-136-163-00 1-126-096-11	FILM	0.00001 076	501	
C508	1-161-370-00	CERAMIC	0.101 30	V	C616	1-126-006-11	FLECT	10.00001 370	% 35V	
0000	1-101-013-00	OFWAMIC	v. v iui 20/6 20	**	C618	1-161-379-00	OFDAMIO	0.01	/# J J V	

#### CONTROL POWER AMP DOLBY SW POWER SUPPLY

#### LAMP VOLUME LED

Ref. No.	Part No.	Description		Remark	Ref. No.	Part No.	Description		Remark
C622	1-161-379-00		0.01uF 20% 25V		CN33 *	1-564-508-11	PLUG, CONNECTO	R 5P	
C651	1-126-101-11		100uF 20% 16V		011004 4 4	4 505 400 00	D. 05 D. 07 (0)		
C652 C701	1-124-282-00 1-123-875-11		22uF 20% 25V 10uF 20% 50V		CNP91 AL*	1-535-139-00	BASE POST 19MM	(10MM PITCH) 2P	
C701	1-162-290-31		470PF 10% 50V	(AFP/ALIS/F/			< DIODE >		
		- CITAMIT 0	41011 1078 001	EA/EE)			( DIODE )		
C703	1-126-233-11	ELECT	22uF 20% 50V		D201	8-719-987-63	DIODE 1N4148M		
C704	1-124-910-11		47uF 20% 50V		D202		DIODE 1N4148M		
C705	1-164-159-11		0. 1uF 50V		D203		DIODE 1N4148M		
C706 C711	1-164-159-11 1-162-290-31		0. 1uF 50V 470PF 10% 50V (	17.(0)	D204			(AUS/E/EE/EA/IT)	
0711	1-102-290-31	CENAMIC	47077 1076 504 (	170)	D205	0-119-901-03	DIODE 1N4148M	(AEP/EE/G)	
C712	1-162-290-31	CERAMIC	470PF 10% 50V (	IT/G)	D207	8-719-987-63	DIODE 1N4148M		
C751	1-124-910-11	ELECT	47uF 20% 50V		D208	8-719-987-63	DIODE 1N4148M		
C752	1-124-484-11		220uF 20% 35V		D209	8-719-987-63	DIODE 1N4148M		
C753	1-123-875-11		10uF 20% 50V		D210		DIODE 1N4148M		
C756	1-123-875-11	ELECI	10uF 20% 50V		D211	8-/19-98/-63	DIODE 1N4148M		
C757	1-123-875-11	ELECT	10uF 20% 50V		D214	8-719-987-63	DIODE 1N4148M	(AFP/FF/G)	
C801	1-123-875-11		10uF 20% 50V		D215			(AUS/E/EE/EA/IT)	
C802	1-162-290-31		470PF 10% 50V (		D216		DIODE 1N4148M		
C803	1-126-233-11		22uF 20% 50V	EA/EE)	D501		DIODE 1N4148M		
C804	1-124-910-11	ELECT	47uF 20% 50V		D502	8-719-987-63	DIODE 1N4148M		
C805	1-164-159-11	CERAMIC	0. 1uF 50V		D503	8-719-987-63	DIODE 1N4148M		
C806	1-164-159-11	CERAMIC	0. 1uF 50V		D505	8-719-303-13			
C811	1-162-290-31	CERAMIC	470PF 10% 50V (	IT/G)	D506	8-719-303-13	LED SEL1210W		
C812	1-162-290-31		470PF 10% 50V (	IT/G)	D507	8-719-303-13			
C901	1-136-165-00	FILM	0.1uF 5% 50V		D508	8-719-303-13	LED SEL1210W		
C902	1-136-165-00	FILM	0.1uF 5% 50V		D511	8-719-303-13	LED SEL1210W		
C961	1-162-294-31		0.001uF 10% 50V	( T/G)	D512		DIODE 1N4148M		
C962	1-162-294-31		0.001uF 10% 50V	* * * * * * * * * * * * * * * * * * * *	D651		LED SEL2210S-D		
C963	1-162-294-31		0.001uF 10% 50V		D911	8-719-500-36	DIODE D2SB20		
C964	1-162-294-31	CERAMIC	0.001uF 10% 50V	(IT/G)					
C965	1164-159-11	CERAMIC	0. 1uF 50V (	IT/6)			< FUSE >		
C966	1-164-159-11		0. 1uF 50V (		F901 ▲	1-532-215-00	FUSE (0. 8A)		
			•				FUSE (0. 8A) (AU	S/E/ÉA)	
		< CIRCUIT BREA	AKER >						
CR701	₾ 1-532-564-00	RREAKER CIRCI	IIT (2 2A)				< HOLDER >		
CB801	<u>↑</u> 1-532-564-00	BREAKER. CIRCL	JIT (2. 2A)		H901 *	1-533-213-31	HOLDER, FUSE (	AUS/F/FA)	
			(2. 2. ,				100001	NOO, E, EN,	
		< CONNECTOR >				1-533-213-31			
CNO	w 1E66004 11	DI HO CONNECTO			H902 *	1-533-217-31	HOLDER, FUSE (	IT/G)	
	* 1-565-924-11 * 1-565-350-11				H903 *	1_522_212_21	HOLDER, FUSE (	AHO /E /EA\	
	* 1-565-350-11				11303 4	1-333-213-31	HOLDER, FOSE (	AU3/ E/ EA)	
	* 1-560-061-00				H904 *	1-533-213-31	HOLDER, FUSE		
							HOLDER, FUSE (	1T/G)	
	* 1-568-518-11								
	* 1-565-973-11 * 1-564-337-00			, in the second			< 10 >		
	* 1-564-517-11				10201	8-759-234-33	IC TC9306F-044		
•			•••		IC501	8-759-602-04			
	* 1-564-506-11				10502	8-759-634-50			
CN32A	* 1-564-506-11	PILIG. CONNECTO	OR 3P		IC531	8-749-920-83			

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.

Replace only with part number specified.

#### CONTROL POWER AMP DOLBY SW POWER SUPPLY

#### LAMP

#### **VOLUME**

**LED** 

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Descriptio	n -	Remark
10551	8-759-632-01	IC M50725-116SP		R564	1-249-405-11	CARBON	100 5% 1/4W	
C601	8-759-602-04			R565	1-249-405-11	CARBON	100 5% 1/4W	
C651	8-759-820-62			R566	1-249-405-11	CARBON	100 5% 1/4W	
C701		IC STK4122MK2		R567	1-249-417-11	CARBON	1K 5% 1/4W	
				R568	1-249-429-11	CARBON	10K 5% 1/4W	
		< LCD >		R569	1-249-413-11	CARBON	470 5% 1/4W	
CD1	1-808-659-11	DISPLAY PANEL, LIQUID CRYISTAL		R570	1-249-417-11	CARBON	1K 5% 1/4W	
				R571	1-249-417-11	CARBON	1K 5% 1/4W	
		< PILOT LAMP >	İ	R581	1-249-429-11		10K 5% 1/4W	
				R582	1-249-417-11	CARBON	1K 5% 1/4W	
PL201	1-518-511-21	LAMP, PILOT		R583	1-249-429-11	CARBON	10K 5% 1/4W	
		< TRANSISTOR >		R590	1-249-405-11		100 5% 1/4W	
				R601	1-249-413-11	CARBON	470 5% 1/4W	
2201	8-729-620-05	TRANSISTOR 2SC2603-EF		R602	1-249-425-11	CARBON	4.7K 5% 1/4W	
2501	8-729-900-74	TRANSISTOR DTC143TS		R603	1-247-891-00		330K 5% 1/4W	
2551		TRANSISTOR DTC114ES TRANSISTOR DTA114ES		R605	1-249-418-11	CARBON	1.2K 5% 1/4W	
1552	0-173-300-01	C3PTIMIU AVIGIGAMAI.		R60 <sup>6</sup>	1-247-903-00	CARBON	1M 5% 1/4W	
1553	8-729-900-80	TRANSISTOR DTC114ES		R607	1-249-425-11	CARBON	4.7K 5% 1/4W	
1554	8-729-620-05	TRANSISTOR 2SC2603-EF		R651	1-249-421-11	CARBON	2.2K 5% 1/4W	
1601	8-729-900-74	TRANSISTOR DTC143TS		R652	1-249-425-11	CARBON	4.7K 5% 1/4W	
				R653	1-249-425-11	CARBON	4.7K 5% 1/4W	
		< RESISTOR >		R701	1-249-417-11	CARBON	1K 5% 1/4W	
201	1-249-421-11	CARBON 2. 2K 5% 1/4W		R702	1-249-438-11	CARBON	56K 5% 1/4W	
202	1-249-421-11			R703	1-249-413-11	CARBON	470 5% 1/4W	
203	1-249-435-11	- 1i		R704	1-249-438-11	CARBON	56K 5% 1/4W	
204	1-249-441-11			R705	1-249-482-11	CARBON	4.7 5% 1/2W	
R205	1-249-431-11	CARBON 15K 5% 1/4W		R706	1-249-421-11	CARBON	2.2K 5% 1/4W	
207	1-249-423-11	CARBON 3. 3K 5% 1/4W		R707	1-249-421-11	CARBON	2.2K 5% 1/4W	
R210	1-249-417-11				₾ 1-212-881-11		100 5% 1/4W F	
211	1-249-405-11				₾ 1-212-881-11		100 5% 1/4W F	
R501	1-249-413-11			R753	1-247-752-11		1K 5% 1/2W	
R502	1-249-425-11	· .		R754	1-247-752-11	CARBON	1K 5% 1/2W	
8503	1-247-891-00	CARBON 330K 5% 1/4W		R759	1-249-437-11	CARBON	47K 5% 1/4W	
1505	1-249-418-11			R760	1-247-883-00		150K 5% 1/4W	
506	1-247-903-00			R761	1-249-429-11	CARBON	10K 5% 1/4W	
1507	1-249-425-11			R771	₾ 1-212-881-11	FUSIBLE	100 5% 1/4W F	
1508	1-249-405-11			R801	1-249-417-11	CARBON	1K 5% 1/4W	
				R802	1-249-438-11	CARBON	56K 5% 1/4W	
509	1-249-405-11			0000	4 040 440 44	0400011	43A FM 4 / 400	
1551	1-249-441-11			R803	1-249-413-11		470 5% 1/4W	
552	1-247-903-00			R804	1-249-438-11		56K 5% 1/4W	
3554	1-249-423-11			R805	1-249-482-11		4.7 5% 1/2W	
1555	1-249-417-11	CARBON 1K 5% 1/4W		R806 R807	1-249-421-11		2. 2K 5% 1/4W 2. 2K 5% 1/4W	
R557	1-249-418-11							
3558	1-249-422-11					< VARIABL	E RESISTOR >	
₹559	1-249-421-11				4 402 184 1	BEA	OLIDE AFAU (100)	
560	1-249-425-11			RV501			SLIDE 250K (100Hz)	
561	1-249-410-11			RV502			SLIDE 250K (400Hz)	
1562	1-249-429-11	I CARBON 10K 5% 1/4W		RV503			SLIDE 250K (1kHz)	
				RV504			SLIDE 250K (4kHz)	
				RV504			SLIDE 250K (4KHZ)	

The components identified by mark A or dotted line with mark A are critical for safety.
Replace only with part number specified.

### CONTROL POWER AMP DOLBY SW POWER SUPPLY

LAMP VOLUME LED MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
DV5.54	1 000 101 01	DEC. WAR CLIPE TOOK (DALANCE)					
RV551 RV601		RES, VAR, SLIDE 100K (BALANCE) RES, VAR, SLIDE 250K (100Hz)				< CAPACITOR >	
RV602		RES, VAR. SLIDE 250K (400Hz)		C001	1-162-195-31	CERAMIC	4.7PF 10% 50V (AEP/AUS/E/EE/EA)
RV603		RES. VAR. SLIDE 250K (1kHz)		C002	1-123-875-11	ELECT	10uF 20% 50V
,,,,,,,	,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		C003	1-161-379-00	CERAMIC	10uF 20% 50V 0.01uF 20% 25V
RV604	1-238-451-21	RES. VAR. SLIDE 250K (4kHz)		C005	1-123-875-11	ELECT	10uF 20% 50V
RV605		RES, VAR. SLIDE 250K (12kHz)					
RV651	1-238-540-11	RES. VAR. CARBON 50K/50K (VOLU	ME)	C006	1-161-379-00		0.01uF 20% 25V
				C007	1-164-159-11		0. 1uF 50V
		< SWITCH >		C008	1-164-159-11		0. 1uF 50V
0000	4 554 000 04	OWNTON TACTUS (A)		C009	1-164-159-11	CERAMIC	0. 1uF 50V (AUS/E/EA)
\$200		SWITCH, TACTILE (0)		0011	1 104 150 11	OFDANIO	0.4
\$201		SWITCH, TACTILE (1)		C011		CERAMIC	0. 1uF 50V
\$202		SWITCH, TACTILE (2)		C012	1-161-379-00		0.01uF 20% 25V
S203 S204		SWITCH, TACTILE (3) SWITCH, TACTILE (4)		C013 C014	1-162-288-31 1-164-159-11		330PF 10% 50V 0.1uF 50V
3204	1:004-000-21	SWITCH, INCITE (4)		0014	1-104-159-11	CENAMIC	0. 1uF 50V
8205	1-554-303-21	SWITCH, TACTILE (5)		C019	1-101-081-00	CERAMIC 130PF	5% 50V (except IT)
\$206		SWITCH, TACTILE (6)		C019	1-102-815-00	CERAMIC 110PF	5% 50V (IT)
\$207	1-554-303-21	SWITCH, TACTILE (7)					
\$208	1-554-303-21	SWITCH, TACTILE (8)		C021	1-103-707-00	POLYSTYRENE 1	80PF 5% 50V
\$209	1-554-303-21	SWITCH, TACTILE (9)		C024	1-102-945-00		PF 0.5PF 50V (AUS/E/EA)
				C025	1-130-480-00		.0056uF 5% 50V (AUS/E/EA)
\$210		SWITCH, TACTILE (MEMORY)		C026	1-136-173-00	FILM 0	. 47uF 5% 50V (AUS/E/EA)
\$211		SWITCH, TACTILE (ENTER)		****			
\$212		SWITCH, TACTILE (+)		C027	1-161-379-00		.01uF 30% 16V (AUS/E/EA)
\$213		SWITCH, TACTILE (-)		C035	1-161-379-00		.01uF 30% 16V (AUS/E/EA)
\$214	1-004-303-21	SWITCH, TACTILE (BAND)		C036	1-161-379-00		.01uF 30% 16V (AUS/E/EA)
\$341	1-554-410-00	SWITCH, PUSH (1 KEY) (DOLBY NR)		C038	1-162-215-31	CERAMIC 4	7PF 5% 50V
\$501		SWITCH, KEYBOARD (POWER)		C039	1-164-064-11	CERAMIC	56PF 5% 50V (IT)
\$503		SWITCH, TACTILE (TAPE)		C039	1-164-069-11		
\$504		SWITCH, TACTILE (CD)		****	1 104 000 11	o E i i i i i i i i i i i i i i i i i i	THE TAX OUT CONCEPT THY
\$505	1-554-303-21	SWITCH, TACTILE (TUNER)		C040	1-161-379-00	CERAMIC	0.01uF 20% 25V
				C041	1-161-374-11		0.0015uF 20% 50V
\$506	1-554-303-21	SWITCH, TACTILE (AUX)		C042	1-102-120-00	CERAMIC	0.0018uF 10% 50V
\$901	<b>▲ 1-571-722-11</b>	SWITCH, VOLTAGE SELECTION (AUS	/E/EA)	C101	1-161-379-00	CERAMIC	0.01uF 20% 25V
				C102	1-124-472-11	ELECT	470uF 20% 10V
		< CRYSTAL >					
V001	1. 577 101 11	VIDDATAD COVETAL /7 ALU-1	}	C103	1-123-875-11		10uF 20% 50V
X201 X551	1-3//-19 -11	VIBRATOR, CRYSTAL (7.2MHz)		C104	1-162-290-31		470PF 10% 50V
V221	1-311-338-21	VIBRATOR, CERAMIC (4MHz)		C105	1-161-379-00		0.01uF 20% 25V
*****	. * * * * * * * * * * * * * * * * * * *	********	*****	C106 C107	1-123-875-11		10uF 20% 50V
*******		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	*******	0107	1-161-379-00	OLIVANIO	0.01uF 20% 25V
	* A-4341-470-A	MAIN BOARD, COMPLETE (AUS/E/EA	)	C108	1-161-379-00	CERAMIC	0.01uF 20% 25V (except IT)
	* A-4341-801-A	MAIN BOARD, COMPLETE (EE)	1	C110	1-124-925-11	ELECT	2. 2uF 20% 100V
		MAIN BOARD, COMPLETE (AEP)		C111	1-161-379-00	CERAMIC	0.01uF 20% 25V
		MAIN BOARD, COMPLETE (IT)		C112	1-136-153-00		0.01uF 5% 50V
	* A-4345-254-A	MAIN BOARD, COMPLETE (G)	1	C113	1-162-211-31	CERAMIC	33PF 5% 50V
		*******		C114	1-162-282-11	CERANIC	100PF 10% 50V (IT/G)
	* 3-309-144-21	HEAT SINK		C115	1-102-202-11		1. Ouf 20% 100V
		SCREW +BVTT 3X8 (S)		C116	1-124-791-11		1. Ouf 20% 100V
		(0)		C117	1-124-791-11		1. Ouf 20% 100V
				C118	1-124-252-00		0. 33uF 20% 50V
				C119	1-162-288-31		330PF 10% 50V
			•	•		= <del>-</del>	• • • • • • • • • • • • • • • • • • • •

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description	Réma:		. Part No.	Description		Remark
C120	1-162-288-31	CERAMIC	330PF 10% 50V	C334	1-162-286-31		220PF 10% 50V	
C121	1-124-791-11	ELECT	1. OuF 20% 100V	C335	1-136-157-00	FILM	0. 022uF 5% 50V	
C122	1-124-791-11	ELECT	1. Ouf 20% 100V	C336	1-124-443-00		100uF 20% 10V	
		CERAMIC	0. 01uF 20% 25V	C337	1-123-875-11		10uF 20% 50V	
C124	1-161-379-00		0. 01uF 20% 25V	C338	1-136-157-00		0. 022uF 5% 50V	
		• • • • • • • • • • • • • • • • • • • •			1 100 101 00	112.11	0.0224. 0.0 00.	
C125	1-161-379-00	CERAMIC	0.01uF 20% 25V	C339	1-124-477-11	ELECT	47uF 20% 25V	
C126	1-123-875-11	ELECT	10uF 20% 50V	C340	1-161-379-00	ELECT CERAMIC	0.01uF 20% 25V	
C127	1-161-379-00		0.01uF 20% 25V	C341	1-123-875-11	ELECT	10uF 20% 50V	
C128	1-124-925-11	ELECT	2. 2uF 20% 100V	C342	1-162-292-31	CERAMIC	680PF 10% 50V	
C129	1-124-463-00	ELECT ELECT	0. 1uF 20% 50V	C343	1-123-875-11	ELECT	680PF 10% 50V 10uF 20% 50V	
C130		ELECT	47uF 20% 25V	C344	1-162-292-31	CERAMIC	680PF 10% 50V	
C131	1-161-379-00		0.01uF 20% 25V	C345	1-123-875-11	ELECT	10uF 20% 50V	
C132	1-136-157-00	FILM CERAMIC	0.022uF 5% 50V	C346	1-123-875-11	ELECT ELECT ELECT	10uF 20% 50V	
C133			0. 1uF 50V (AEP/A		1-124-254-00	ELECT	0.68uF 20% 50V	
C134	1-161-379-00	CERAMIC	0.01uF 20% 25V	E/EA) C348	1-124-443-00	ELECT	100uF 20% 10V	
C135	1-161-379-00	CEDANIO	0.01uF 20% 25V	C349	1 100 075 44	E) FOT	10 000 500	
C136	1-162-282-31		100PF 10% 50V	C350	1 123 075 11	ELECT	10uF 20% 50V 10uF 20% 50V	
C137	1-102-202-31		0. 47uF 20% 50V	C351	1-123-073-11	ELECT CERAMIC	10uF 20% 50V 100PF 10% 50V	
C138	1-136-157-00		0. 022uF 5% 50V	C352	1-130-477-00	LIVIAD	0.0033uF 5% 50V	
C139	1-136-157-00	FILM	0. 022uF 5% 50V	C352	1-130-480-00	MILAN	0.0055uF 5% 50V	
0133	1-130-131-00	rium -	0. 022UF 0% 00V	0000	1-130-400-00	MILAK	U. UUDOUF 5% 5UV	
C140	1-161-379-00	CERAMIC	0.01uF 20% 25V	C354	1-136-163-00	FILM	0.068uF 5% 50V	
C141	1-161-379-00	CERAMIC	0.01uF 20% 25V	C355	1-123-875-11	FILM ELECT	10uF 20% 50V	
C142	1-136-155-00	FILM	0.015uF 5% 50V	C356	1-162-282-31	CERAMIC	100PF 10% 50V	
C143	1-136-155-00	FILM	0.015uF 5% 50V	C357	1-162-282-31		100PF 10% 50V	
C301	1-162-282-31	CERAMIC	100PF 10% 50V	C361	1-124-791-11	ELECT	1. 0uF 20% 100V	
0000		0.50444.0	AAABE AAA PAU					
C302	1-162-282-31	CERAMIC	100PF 10% 50V	C362	1-161-374-11		0.0015uF 20% 50V	
C304	1-162-282-31	CERAMIC	100PF 10% 50V	C363	1-161-329-00		0.0068uF 30% 16V	
C310	1-102-282-31	CERAMIC	100PF 10% 50V 100PF 10% 50V 100PF 10% 50V	C364	1-124-925-11		2. 2uF 20% 100	
C311	1-102-282-31	CERAMIC	100PF 10% 50V	C365	1-162-286-31		220PF 10% 50V	
C312	1-123-875-11	ELECT	10uF 20% 50V	C366	1-162-286-31	CERAMIC	220PF 10% 50V	
C313	1-161-379-00	CERAMIC	0.01uF 20% 25V	C367	1-136-153-00	FILM	0.01uF 5% 50V	
C315	1_161_27000	CEDAMIC	0 01 200/ 251/	C368	1-130-475-00	MVIAD	0 002205 5% 50V	
C316	1-161-379-00	CERAMIC	0.01uF 20% 25V	C369	1-130-475-00 1-130-475-00	MYLAR	0.0022uF 5% 50V	
C317	1-124-477-11	CERAMIC CERAMIC ELECT ELECT	47uF 20% 25V	C371	1-162-294-31	MYLAR CERAMIC CERAMIC	0.001uF 10% 50V	
C318	1-124-477-11	ELECT	47uF 20% 25V	C372	1-162-282-31	CERAMIC	100PF 10% 50V	
						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
C319	1-161-379-00		0.01uF 20% 25V	C373	1-162-288-31		330PF 10% 50V	
C321	1-162-292-31	CERAMIC	680PF 10% 50V	C374	1-162-284-31	CERAMIC	150PF 10% 50V	
C322	1-123-875-11	ELECT	10uF 20% 50V	C375	1-124-463-00		0.1uF 20% 50V	
C323	1-162-286-31		220PF 10% 50V	C376	1-162-282-31	CERAMIC	100PF 10% 50V	
C324	1-162-286-31	CERAMIC	220PF 10% 50V	C377	1-162-282-31	CERAMIC	10QPF 10% 50V	
C325	1-136-157-00	FILM	0 0221E FW FOV	0000	1_104_477_44	ELECT	47 000/ 054	
C325	1-136-137-00		0.022uF 5% 50V	C382	1-124-477-11		47uF 20% 25V	
C327	1-124-443-00		100uF 20% 10V	C383	1-124-791-11		1. 0uF 20% 100V	
C328			10uF 20% 50V	C384	1-124-120-11		220uF 20% 25V	
	1-136-157-00		0. 022uF 5% 50V	C391	1-162-286-31		220PF 10% 50V	
C329	1-124-477-11	ELECI	47uF 20% 25V	C401	1-162-282-31	CERAMIC	100PF 10% 50V	
C330	1-161-379-00	CERAMIC	0.01uF 20% 25V	C402	1-162-282-31	CERAMIC	100PF 10% 50V	
C331	1-162-292-31		680PF 10% 50V	C404	1-162-282-31		100PF 10% 50V	
C332	1-123-875-11		10uF 20% 50V	C410	1-162-282-31		100PF 10% 50V	
C333	1-162-286-31		220PF 10% 50V	C411	1-162-282-31		100PF 10% 50V	
	*,			, ,,,,	VI			

Dof No	Part No	Description		Remark	Ref. No.	p	art No.	Description		Remark
Ref. No.	Part No.			Temark						
C412	1-123-875-11	ELECT	10uF 20% 50V		C953		-162-294-31			, , ,
C421	1-162-292-31		680PF 10% 50V		C954	1	-161-379-00	CERAMIC	0.001uF 30% 16V	(IT/G)
C422	1-123-875-1.1	ELECT	10uF 20% 50V							
C423	1-162-286-31	CERAMIC	220PF 10% 50V	j				< FILTER >		
C424	1-162-286-31	CERAMIC	220PF 10% 50V							
					CF001			FILTER, CERAM		
C425	1-136-157-00	FILM	0.022uF 5% 50V		CF002			FILTER, CERAM		
C426	1-124-443-00	ELECT	100uF 20% 10V		CF101	1	1-567-389-11	FILTER, CERAM	AIC .	
C427	1-123-875-11	ELECT	10uF 20% 50V							
C428	1-136-157-00	FILM	0.022uF 5% 50V					< CONNECTOR >	•	
C429	1-123-875-11	ELECT	10uF 20% 50V							
								SOCKET, CONNE		
C431	1-162-292-31	CERAMIC	680PF 10% 50V		CN3	<b>*</b> 1	1-565-349-11	SOCKET, CONNE	CTOR 6P	
C432	1-123-875-11	ELECT	10uF 20% 50V	ļ				SOCKET, CONNE		
C433	1-162-286-31	CERAMIC	220PF 10% 50V		CN7	1	1-560-061-00	PIN, CONNECTO	OR 3P	
C434	1-162-286-31	CERAMIC	220PF 10% 50V		CN8	* 1	1-564-336-00	PIN. CONNECTO	OR 2P	
C435	1-136-157-00	FILM	0.022uF 5% 50V							
				1				SOCKET, CONNE		
C436	1-124-443-00	ELECT	100uF 20% 10V	1	CN31	* 1	1-564-506-11	PLUG, CONNECT	TOR 3P	
C437	1-123-875-11	ELECT	10uF 20% 50V		CN32	* 1	1-564-509-11	PLUG, CONNECT	TOR 6P	
C438	1-136-157-00	FILM	0.022uF 5% 50V		CN33	* 1	1-564-505-11	PLUG, CONNECT	TOR 2P	
C439	1-123-875-11	ELECT	10uF 20% 50V		CN34	* 1	1-564-338-00	PIN. CONNECTO	OR 4P	
C441	1-123-875-11	ELECT	10uF 20% 50V		CN35	* 1	1-564-341-11	PIN, CONNECTO	OR 7P	
C442	1-162-292-31	CERAMIC	680PF 10% 50V	-				< TRIMMER >		
C443	1-123-875-11	ELECT	10uF 20% 50V							
C444	1-162-292-31	CERAMIC	680PF 10% 50V		CT001	1	1-141-245-00	CAP, TRIMMER	30PF	
C445	1-123-875-11	ELECT	10uF 20% 50V		CT003	1	1-141-227-00	CAP. TRIMMER	20PF (AUS/E/EA)	
C446	1-123-875-11	ELECT	10uF 20% 50V		CT004	1	1-141-227-00	CAP, TRIMMER	20PF (AUS/E/EA)	
					CT005	1	1-141-245-00	CAP, TRIMMER	30PF	
C447	1-124-254-00	ELECT	0.68uF 20% 50V							
C448	1-124-477-11	ELECT	47uF 20% 25V					< DIODE >		
C449	1-123-875-11	ELECT	10uF 20% 50V							
C451	1-162-282-31	CERAMIC	100PF 10% 50V		D001	1	3-719-902-79	DIODE KV1236Z	! (AUS/E/EA)	
C452	1-130-477-00	MYLAR	0.0033uF 5% 50V		D002	{	3-719-902-79	DIODE KV1236Z	!	
					D003			DIODE 1N4148N		
C453	1-130-480-00		0.0056uF <b>5%</b> 50V		D004			DIODE 188168		
C454	1-136-163-00	FILM	0.068uF 5% 50V		D005	1	8-719-987-63	DIODE 1N4148N	A ·	
C455	1-123-875-11	ELECT	10uF 20% 50V							
C456	1-162-282-31		100PF 10% 50V		D006			DIODE 1N4148N		
C457	1-162-282-31	CERAMIC	100PF 10% 50V		D011			DIODE 1N4148N		
					D013			DIODE 1N4148N		
C491	1-162-286-31		220PF 10% 50V		D014			DIODE 1N4148N		
C758	1-124-120-11		220uF 20% 25V		D016		8-719-987-63	DIODE 1N4148N	4.	
C791	1-164-159-11	CERAMIC	0. 1uF 50V	(IT/G)						
C891	1-164-159-11	CERAMIC	0. 1uf 50V (	(IT/6)	D017		8-719-987-63	DIODE 1N4148N	vi	
C903	1-124-618-11	ELECT	2200uF 20% 35V		D301		8-719-933-48	DIODE HZS7B31	Ľ	
					D802	1	8-719-933-48	DIODE HZS7B31	Ĺ	
C904	1-124-618-11		2200uF 20% 35V		D361			DIODE 1N4148		
C905	1-124-927-11	ELECT	4. 7uF 20% 100V		D362		8-719-987-63	D10DE 1N4148N	<b>VI</b> .	
C906	1-124-927-11		4. 7uF 20% 100V	İ						
C907	1-123-875-11		10uF 20% 50V		D381		8-719-987-63	DIODE 1N4148	M	
C910	1-123-875-11	ELECT	10uF 20% 50V		D382		8-719-987-63	DIODE 1N4148	M	
					D383		8-719-987-63	DIODE 1N4148	M	
C911	1-124-443-00	ELECT	100uF 20% 10V		D384		8-719-987-63	DIODE 1N4148	М	
C912	1-124-791-11	ELECT	1. OuF 20% 100\		D385		8-719-987-63	DIODE 1N4148	М	
C951	1-161-379-00	CERAMIC	0.001uF 30% 16V	(IT/G)						
C952	1-164-159-11	CERAMIC	0. 1uF 50V	(IT/G)						

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Descripti	o n 		Remark
D386	8-719-987-63	DIODE 1N4148M							
D387	8-719-987-63	DIODE 1N4148M		L010	1-402-425-11				
D388	8-719-987-63	DIODE 1N4148M		L011	1-408-425-00	INDUCTOR	220uH		
D389	8-719-987-63	DIODE 1N4148M		L101	1-408-399-00			5%	
				L102	1-410-489-11				
D390	8-719-987-63	DIODE 1N4148M		L351	1-410-779-21	INDUCTOR	22mH		
D751	8-719-987-63	DIODE 1N4148M							
D752	8-719-987-63	DIODE 1N4148M		L352	1-410-779-21	INDUCTOR	22mH		
				L361	1-410-489-11		390uH		
		< FRONT END >		L451	1-410-779-21		22mH		
				L452	1-410-779-21	INDUCTOR	22mH		
FE1	1-465-006-11	FRONT END (FM) (2 GANG) (AE	P/AUS/E/EA)				•		
FE1	1-465-007-11	FRONT END (FM) (4 GANG) (IT,	/G)			< TRANSIS	TOR >		
FE1	1-465-396-11	FRONT END (FM) (3 GANG) (EE)	)						
				0001	8-729-620-19	TRANSISTO	R 2SC2724-C	D	
		< FILTER >		0002	8-729-900-61	TRANSISTO	R DTA114ES		
				0003	8-729-900-80	TRANSISTO	R DTC114ES		
FL001	1-235-936-11	ENCAPSULATED COMPONENT		0004	8-729-900-61				
FL101		ENCAPSULATED COMPONENT (1	T/G)	Q005	8-729-900-80	TRANSISTO	R DTC114ES		
FL102		FILTER, LOW PASS							
FL103	1-235-164-00	FILTER, LOW PASS		0006	8-729-900-61	TRANSISTO	R DTA114ES		
				0007	8-729-900-80	TRANSISTO	R DTC114ES		
		< 10 >		Q008	8-729-900-61	TRANSISTO	R DTA114ES	(AUS/E/EA)	
				0009	8-729-900-80	TRANSISTO	R DTC114ES	(AUS/E/EA)	
IC101	8-759-821-45	IC LA1851N		0010	8-729-202-67	TRANSISTO	R 2SK246-GR	3	
IC102	8-759-231-01	IC TC9227P							
IC301	8-759-634-50	IC M5218AL		0011	8-729-900-80	TRANSISTO	R DTC114ES		
IC302	8-759-152-34	IC MC14052BCP		0012	8-729-900-80	TRANSISTO	R DTC114ES		
1C303	8-759-634-50	IC M5218AL		Q013	8-729-672-42	TRANSISTO	R 2SC2724C	(IT/G)	
				0101	8-729-900-80				
10321	8-759-971-24	IC BA3406AL		0103	8-729-202-67	TRANSISTO	R 2SK246-GR	3	
IC331	8-759-971-24								
IC341	8-752-034-26			0104	8-729-620-05	TRANSISTO	R 2SC2603-E	F	
10351	8-759-634-50	IC M5218AL		Q105	8-729-202-67	TRANSISTO	R 2SK246-GR	3	
IC371	8-759-634-50			0106	8-729-620-05	TRANSISTO	R 2SC2603-E	F	
				Q341	8-729-900-80	TRANSISTO	R DTC114ES		
IC381	8-759-240-01	IC TC4001BP		0342	8-729-900-80	TRANSISTO	R DTC114ES		
IC901	8-759-602-66	IC M5230L-A							
10902	8-759-604-29	IC M5F7805L		Q351	8-729-900-80	TRANSISTO	R DTC114ES		
				Q352	8-729-900-80	TRANSISTO	R DTC114ES		
		< TRANSFORMER >		Q361	8-729-801-93	TRANSISTO	R 2SD1387-3		
				Q362	8-729-620-05	TRANSISTO	R 2SC2603-E	F	
IFT101	1-404-807-11	TRANSFORMER, DISCRIMINATO	R	Q381	8-729-900-80	TRANSISTO	R DTC114ES		
IFT102	1-404-713-11	TRANSFORMER. IF							
				Q382	8-729-801-93				
		< JACK >		Q383	8-729-900-80	TRANSISTO	R DTC114ES		
				Q384	8-729-900-80				
J301	1-565-259-11	JACK, PIN 4P (AUX/CD)		0441	8-729-900-80	TRANSISTO	R DTC114ES		
J371	1-562-837-21	, , ,		Q442	8-729-900-80	TRANSISTO	R DTC114ES		
J701		JACK (HEADPHONES)							
		• • • •		Q451	8-729-900-80	TRANSISTO	R DTC114ES		
		< COIL >		0452	8-729-900-80	TRANSISTO	R DTC114ES		
				0901	8-729-209-15	TRANSISTO	R 2SD2012	(AEP/EE/IT,	/G)
L001	1-406-286-11	COIL (LW OSC)		0901	8-729-920-98				
L003		COIL (OSC, SW3) (AUS/E/EA)		0902	8-729-111-67	TRANSISTO	R 28B1094-L	(AEP/EE/	IT/G)
LUUG									
	1-402-424-11	COIL (ANT, SW3) (AUS/E/EA)		1					
L003 L004 L005		INDUCTOR 390uH (AUS/E/EA)	4)	Q902	8-729-924-90	TRANSISTO	R 2SB1370-E	F (AUS/E/	EA)

#### **HST-H411**

Ref. No.	Part No.	Description	Remark 	Ref. No.		Description			Remark
		< RESISTOR >		R126	1-249-410-11	CARRON	270 59	% 1/4W	
				R127	1-249-425-11		4. 7K 59		
R001	1-247-891-00	CARBON 330K 5%	1/4W	R128	1-249-425-11		4. 7K 59	4 1/4W	
R002	1-249-411-11			R129	1-249-425-11		4. 7K 59		
			.,	R130	1-249-405-11		100 59		
R003	1-249-405-11	CARBON 100 5% 1	/4W (IT/G)	N TOO	1-243-400-11	CARBON	100 57	% 1/4W	
R003	1-249-407-11			R131	1-249-417-11	CADDON	1 V E	v + 7 Au	
	1 240 401 11	100 0%	/ 411	R132				% 1/4W	
R004	1-249-429-11	CARBON 10K 5%	1 / AW		1-249-418-11		1. 2K 59		
R005	1-249-429-11			R133	1-249-410-11		270 59		
R006	1-249-429-11			R134	1-249-414-11		560 59		
R007			1/4W (AUS/E/EA)	R135	1-249-421-11	CARBON	2. 2K 59	6 1/4W	
	1-249-441-11								
R008.	1-249-437-11	CARBON 47K 5%	1/4W	R136	1-249-433-11		22K 59		
0000	1 0 1 7 0 0 0 0 0		*	R137	1-249-425-11		4.7K 59	6 1/4W	
R009	1-247-903-00			R138	1-249-425-11	CARBON	4. 7K 59	6 1/4W	
R010	1-249-411-11			R301	1-249-437-11	CARBON	47K 59	6 1/4W	
R017	1-249-429-11		/4W (AUS/E/EA)	R302	1-249-422-11	CARBON	2.7K 59	6 1/4W	
R018	1-249-429-11		/4W (AUS/E/EA)	R303	1-249-437-11	CARBON	47K 59		
R022	1-249-417-11	CARBON 1K 5% 1	/4W (AUS/E/EA)				• • • • • • • • • • • • • • • • • • • •	., .,,	
				R304	1-249-422-11	CARBON	2.7K 5%	4 1/4W	
R023	1-249-417-11		/4W (AUS/E/EA)	R304A	1-249-417-11				(AEP/EE)
R024	1-249-409-11	CARBON 220 5% 1					111 07	, 1/ 411	(717)
R025	1-249-429-11			R309	1-249-433-11	CARRON	22K 5%	2 1 / AW	
R026	1-249-429-11			R310	1-249-427-11	CADBON			
R027	1-249-429-11		/4W (AUS/E/EA)	R311	1-249-441-11		6. 8K 5%		
			, ,,, (,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		1-249-430-11		100K 5%		
R028	1-249-429-11	CARBON 10K 5%	1/4W (AUS/E/EA)	R313	1-247-870-11		12K 5%		
R031	1-247-891-00		1/4W (IT/G)	1010	1-241-010-11	CARBUN	43K 5%	1/4W	
R032	1-249-411-11		1/4W (1T/G)	D214	1 040 405 44	0.10001			
R101	1-249-417-11		1/4W	R314	1-249-425-11		4. 7K 5%		
R102	1-249-432-11			R315	1-249-441-11	CARBON	100K 5%		
11102	1 240 402 11	CHUDON 19K 239.	1/411	R316	1-249-441-11 1-249-417-11	CARBON	100K 5%		
R103	1-249-435-11	CARRON CON EN 4 / AUL / A	FD /4110 /F /FF /F4)				1K 5%		
R104	1-249-427-11		EP/AUS/E/EE/EA)	R318	1-249-417-11	CARBON	1K 5%	6 1/4W	
R105									
R106	1-249-430-11		1/4W	R319	1-249-409-11		220 5%		
KIUO	1-247-848-11	CARBON 5. 1K 5%	1/4W	R320	1-249-409-11	CARBON	220 5%	1/4W	
D107	1 010 110 11	0400011 000 000 000			1-247-903-00	CARBON	1M 5%	1/4W	
R107	1-249-416-11		AEP/AUS/E/EE/EA)	R322	1-249-411-11	CARBON	330 5%	1/4W	
R107	1-249-420-11	CARBON 1.8K 5% 1/4W (	T/G)	R323	1-247-882-11	CARBON	130K 5%		
D 4 A A	4 848 449 121	ALBRAM						•	
R108	1-249-437-11			R324	1-249-426-11	CARBON	5. 6K 5%	1/4W	
R109	1-249-425-11			R325	1-249-433-11	CARBON	22K 5%	,	
R110	1-249-425-11			R326	1-249-433-11		22K 5%		
R111	1-249-423-11		1/.4W	R327	1-249-431-11		15K 5%		
R112	1-249-423-11	CARBON 3.3K 5%		R328	1-249-411-11	CARBON	330 5%	1/4W	
						071115011	000 0/4	1/ 411	
R113	1-249-441-11	CARBON 100K 5%	1/4W	R329	1-249-425-11	CARRON	4. 7K 5%	1 / / W	
R114	1-249-429-11				1-249-429-11		10K 5%		
R115	1-249-422-11			R331	1-247-903-00				
R116	1-249-422-11		•	R332	1-249-411-11			1/4W	
R119	1-249-405-11		•	R333	1-243-411-11	CADDON		1/4W	
			7 711	nooo	1-247-882-11	CAKBUN	130K 5%	1/4W	
R121	1-249-401-11	CARBON 47 5%	1//W	D224	1 040 400 44	040004	P 04 ***		
R122	1-249-414-11		,		1-249-426-11		5. 6K 5%	* :	
R123	1-249-421-11			R335	1-249-429-11	CARBON	10K 5%		
R124	1-249-423-11			R336	1-249-431-11	CARBON	15K 5%		
R125	1-249-418-11			R338	1-249-411-11		330 5%		
H140	1 443-410-11	CARBON 1. 2K 5% 1	/ 4M	R339	1-249-425-11	CARBON	4.7K 5%	1/4W	

Ref. No.   Part No.   Description   Remark   Ref. No.   Part No.   Description   R340   1-249-429-11 CARBON   42K SM 1/4W   R413   1-247-870-11 CARBON   42K SM 1/4W   R414   1-249-425-11 CARBON   47K SM 1/4W   R421   1-247-980-10 CARBON   1M SM 1/4W   R423   1-248-411-11 CARBON   330 SM 1/4W   R423   1-248-411-11 CARBON   330 SM 1/4W   R423   1-248-411-11 CARBON   330 SM 1/4W   R424   1-249-425-11 CARBON   330 SM 1/4W   R425   1-249-423-11 CARBON   130K SM 1/4W   R426   1-249-423-11 CARBON   22K SM 1/4W   R426   1-249-423-11 CARBON   15K SM 1/4W   R436   1-249-423-11 CARBON   330 SM 1/4W   R436   1-249-423-11 CARBON   330 SM 1/4W   R436   1-249-423-11 CARBON   330 SM 1/4W   R436   1-249-423-11 CARBON   15K SM 1/4W   R436   1-249-423-11 CARBON   15K SM 1/4W   R436   1-249-423-11 CARBON   15K SM 1/4W   R436   1-249-423-11 CARBON   15K SM 1/4W   R436   1-249-423-11 CARBON   15K SM 1/4W   R436   1-249-423-11 CARBON   15K SM 1/4W   R436   1-249-423-11 CARBON   15K SM 1/4W   R436   1-249-423-11 CARBON   15K SM 1/4W   R436   1-249-423-11 CARBON   15K SM 1/4W   R436   1-249-423-11 CARBON   15K SM 1/4W   R436   1-249-423-11 CARBON   15K SM 1/4W   R436   1-249-423-11 CARBON   15K SM 1/4W   R436   1-249-423-11 CARBON   15K SM 1/4W   R436   1-249-423-11 CARBON   15K SM 1/4W   R436   1-249-423-11 CARBON	
## R340 1-249-429-11 CARBON 10K 5% 1/4W  ## R414 1-249-425-11 CARBON 47K 5% 1/4W  ## R414 1-249-425-11 CARBON 10K 5% 1/4W  ## R412 1-247-930-10 CARBON 10K 5% 1/4W  ## R412 1-247-930-10 CARBON 10K 5% 1/4W  ## R412 1-247-930-10 CARBON 10K 5% 1/4W  ## R412 1-247-930-10 CARBON 10K 5% 1/4W  ## R412 1-247-930-10 CARBON 30 5% 1/4W  ## R412 1-249-431-11 CARBON 30 5% 1/4W  ## R412 1-249-431-11 CARBON 30 5% 1/4W  ## R412 1-249-431-11 CARBON 30 5% 1/4W  ## R412 1-249-431-11 CARBON 30 5% 1/4W  ## R412 1-249-431-11 CARBON 30 5% 1/4W  ## R412 1-249-431-11 CARBON 20 5% 1/4W  ## R412 1-249-431-11 CARBON 10K 5% 1/4W  ## R412 1-249-431-11 CARBON 10K 5% 1/4W  ## R412 1-249-431-11 CARBON 15K 5% 1/4W  ## R413 1-249-431-11 CARBON 15K 5% 1/4W  ## R413 1-249-431-11 CARBON 15K 5% 1/4W  ## R413 1-249-431-11 CARBON 10K 5% 1/4W  ## R413	Remark
1-249-429-11 CARBON	
1-245-429-11   CARBON	
R343   1-243-433-11 CARBON   22K   5K   1/4W   R423   1-243-421-11 CARBON   130K   5K   1/4W   R424   1-243-427-11 CARBON   130K   5K   1/4W   R425   1-243-427-11 CARBON   130K   5K   1/4W   R426   1-243-423-11 CARBON   22K   5K   1/4W   R427   1-243-423-11 CARBON   15K   5K   1/4W   R428   1-243-425-11 CARBON   15K   5K   1/4W   R428   1-243-425-11 CARBON   130K   5K   1/4W   R431   1-247-803-00 CARBON   1M   5K   1/4W   R352   1-243-423-11 CARBON   330   5K   1/4W   R434   1-243-425-11 CARBON   330   5K   1/4W   R435   1-243-425-11 CARBON   33K   5K   1/4W   R435   1-243-423-11 CARBON   15K   5K   1/4W   R435   1-243-423-11 CARBON   15K   5K   1/4W   R435   1-243-423-11 CARBON   15K   5K   1/4W   R442   1-243-423-11 CARBON   15K   5K   1/4W   R443   1-243-423-11 CARBON   15K   5K   1/4W   R444   1-243-423-11 CARBON   15K   5K   1/4W   R444   1-243-423-11 CARBON   15K   5K   1/4W   R444   1-243-423-11 CARBON   15K   5K   1/4W   R443   1-243-423-11 CARBON   15K   5K   1/4W   R443   1-243-423-11 CARBON   15K   5K   1/4W   R443   1-243-423-11 CARBON   15K   5K   1/4W   R445   1-243-423-11 CARBON   15K   5K	
R429   1-249-427-11 CARBON   6. 8K 5% 1/4W   R423   1-249-425-11 CARBON   33K 5% 1/4W   R347   1-247-870-11 CARBON   33K 5% 1/4W   R425   1-249-433-11 CARBON   5. 6K 5% 1/4W   R426   1-249-433-11 CARBON   22K 5% 1/4W   R426   1-249-433-11 CARBON   10K 5% 1/4W   R427   1-249-433-11 CARBON   10K 5% 1/4W   R431   1-247-903-00 CARBON   10K 5% 1/4W   R431   1-247-903-00 CARBON   10K 5% 1/4W   R433   1-249-411-11 CARBON   30K 5% 1/4W   R433   1-249-411-11 CARBON   30K 5% 1/4W   R433   1-249-411-11 CARBON   30K 5% 1/4W   R433   1-249-421-11 CARBON   30K 5% 1/4W   R433   1-249-431-11 CARBON   30K 5% 1/4W   R434   1-249-421-11 CARBON   10K 5% 1/4W   R435   1-249-433-11 CARBON   33K 5% 1/4W   R436   1-249-433-11 CARBON   10K 5% 1/4W   R436   1-249-433-11 CARBON   10K 5% 1/4W   R436   1-249-437-11 CARBON   10K 5% 1/4W   R437   1-249-437-11 CARBON   10K 5% 1/4W   R441   1-249-427-11 CARBON   10K 5% 1/4W   R441   1-249-427-11 CARBON   10K 5% 1/4W   R441   1-249-427-11 CARBON   10K 5% 1/4W   R441   1-249-429-11 CARBON   10K 5% 1/4W   R441   1-249-429-11 CARBON   10K 5% 1/4W   R441   1-249-437-11 CARBON   10K 5% 1/4W   R441   1-249-437-11 CARBON   20K 5% 1/4W   R441   1-249-437-11 CARBON   10K 5% 1/4W   R451   1-249-437-11	
R345 1-249-435-11 CARBON 33K 5% 1/4W R424 1-249-426-11 CARBON 5.6K 5% 1/4W R347 1-249-431-11 CARBON 10N 5% 1/4W R426 1-249-433-11 CARBON 10N 5% 1/4W R426 1-249-433-11 CARBON 10N 5% 1/4W R426 1-249-433-11 CARBON 15K 5% 1/4W R348 1-249-429-11 CARBON 10N 5% 1/4W R426 1-249-433-11 CARBON 15K 5% 1/4W R350 1-249-435-11 CARBON 33K 5% 1/4W R431 1-247-903-00 CARBON 1M 5% 1/4W R351 1-249-419-11 CARBON 6.8K 5% 1/4W R431 1-247-903-00 CARBON 1M 5% 1/4W R351 1-249-419-11 CARBON 6.8K 5% 1/4W R431 1-247-882-11 CARBON 10N 5% 1/4W R354 1-249-426-11 CARBON 8.8K 5% 1/4W R431 1-247-882-11 CARBON 10N 5% 1/4W R354 1-249-426-11 CARBON 8.3K 5% 1/4W R431 1-249-426-11 CARBON 10N 5% 1/4W R354 1-249-425-11 CARBON 33K 5% 1/4W R436 1-249-426-11 CARBON 10K 5% 1/4W R355 1-249-425-11 CARBON 33K 5% 1/4W R436 1-249-425-11 CARBON 10K 5% 1/4W R356 1-249-435-11 CARBON 33K 5% 1/4W R436 1-249-431-11 CARBON 10K 5% 1/4W R356 1-249-435-11 CARBON 10K 5% 1/4W R356 1-249-431-11 CARBON 10K 5% 1/4W R356 1-249-431-11 CARBON 10K 5% 1/4W R358 1-249-431-11 CARBON 10K 5% 1/4W R358 1-249-431-11 CARBON 10K 5% 1/4W R358 1-249-431-11 CARBON 10K 5% 1/4W R441 1-249-437-11 CARBON 10K 5% 1/4W R356 1-249-433-11 CARBON 10K 5% 1/4W R441 1-249-437-11 CARBON 10K 5% 1/4W R356 1-249-433-11 CARBON 10K 5% 1/4W R441 1-249-437-11 CARBON 10K 5% 1/4W R356 1-249-433-11 CARBON 10K 5% 1/4W R441 1-249-437-11 CARBON 10K 5% 1/4W R356 1-249-433-11 CARBON 10K 5% 1/4W R356 1-249-433-11 CARBON 10K 5% 1/4W R356 1-249-437-11 CARBON 10K 5% 1/4W R351 1-249-437-11 CARBON 10K 5% 1/4W R351 1-249-437-11 CARBON 10K 5% 1/4W R356 1-249-437-11 CARBON 10K 5% 1/4W R356 1-249-437-11 CARBON 10K 5% 1/4W R351 1-249-437-11 CARBON 10K 5% 1/4W R351 1-249-437-11 CARBON 10K 5% 1/4W R351 1-249-437-11 CARBON 10K 5% 1/4W R351 1-249-437-11 CARBON 10K 5% 1/4W R351 1-249-437-11 CARBON 10K 5% 1/4W R351 1-249-437-11 CARBON 10K 5% 1/4W R351 1-249-437-11 CARBON 10K 5% 1/4W R351 1-249-437-11 CARBON 10K 5% 1/4W R351 1-2	
R327   1-247-870-11 CARBON	
R348   1-249-431-11 CARBON   43K 5K 1/4W   R425   1-249-433-11 CARBON   22K 5K 1/4W   R348   1-249-421-11 CARBON   10K 5K 1/4W   R427   1-249-433-11 CARBON   22K 5K 1/4W   R350   1-249-435-11 CARBON   33K 5K 1/4W   R431   1-247-903-00 CARBON   1M 5K 1/4W   R431   1-249-435-11 CARBON   15K 5K 1/4W   R431   1-249-435-11 CARBON   15K 5K 1/4W   R432   1-249-421-11 CARBON   330 5K 1/4W   R432   1-249-421-11 CARBON   330 5K 1/4W   R432   1-249-421-11 CARBON   330 5K 1/4W   R432   1-249-421-11 CARBON   330 5K 1/4W   R434   1-249-426-11 CARBON   330 5K 1/4W   R435   1-249-425-11 CARBON   330 5K 1/4W   R435   1-249-425-11 CARBON   330 5K 1/4W   R435   1-249-425-11 CARBON   330 5K 1/4W   R435   1-249-429-11 CARBON   10K 5K 1/4W   R435   1-249-435-11 CARBON   10K 5K 1/4W   R435   1-249-435-11 CARBON   10K 5K 1/4W   R435   1-249-435-11 CARBON   10K 5K 1/4W   R436   1-249-435-11 CARBON   10K 5K 1/4W   R436   1-249-435-11 CARBON   10K 5K 1/4W   R441   1-249-437-11 CARBON   10K 5K 1/4W   R441   1-249-437-11 CARBON   10K 5K 1/4W   R442   1-249-437-11 CARBON   10K 5K 1/4W   R443   1-249-437-11 CARBON   10K 5K 1/4W   R444   1-249-427-11 CARBON   22K 5K 1/4W   R444   1-249-427-11 CARBON   33K 5K 1/4W   R444   1-249-427-11 CARBON   33K 5K 1/4W   R444   1-249-427-11 CARBON   33K 5K 1/4W   R445   1-249-437-11 CARBON   33K 5K 1/4W   R446   1-249-427-11 CARBON   33K 5K 1/4W   R446   1-249-427-11 CARBON   33K 5K 1/4W   R446   1-249-427-11 CARBON   33K 5K 1/4W   R447   1-249-437-11 CARBON   33K 5K 1/4W   R448   1-249-427-11 CARBON   33K 5K 1/4W   R448   1-249-427-11 CARBON   33K 5K 1/4W   R456   1-249-437-11 CARBON   33K 5K 1/4W   R457   1-249-438-11 CARBON   33K 5K 1/4W   R457   1-249-438-11 CARBON   33K 5K 1/4W   R458   1-249-421-11 CARBON   33K 5K 1/4W   R458   1-249-421-11 CAR	
R348 1-249-443-11 CARBON 10K 5% 1/4W R427 1-249-433-11 CARBON 2Z	
R349   1-249-429-11 CARBON   10K 5% 1/4W   R431   1-249-831-11 CARBON   15K 5% 1/4W   R351   1-249-435-11 CARBON   15K 5% 1/4W   R432   1-249-431-11 CARBON   15K 5% 1/4W   R351   1-249-425-11 CARBON   15K 5% 1/4W   R432   1-249-426-11 CARBON   330 5% 1/4W   R353   1-249-427-11 CARBON   820 5% 1/4W   R434   1-249-426-11 CARBON   5K 5% 1/4W   R354   1-249-425-11 CARBON   330 5% 1/4W   R434   1-249-426-11 CARBON   5K 5% 1/4W   R435   1-249-426-11 CARBON   15K 5% 1/4W   R435   1-249-426-11 CARBON   15K 5% 1/4W   R435   1-249-426-11 CARBON   15K 5% 1/4W   R435   1-249-423-11 CARBON   15K 5% 1/4W   R435   1-249-435-11 CARBON   15K 5% 1/4W   R436   1-249-435-11 CARBON   15K 5% 1/4W   R441   1-249-437-11 CARBON   15K 5% 1/4W   R442   1-249-429-11 CARBON   15K 5% 1/4W   R356   1-249-430-11 CARBON   12K 5% 1/4W   R442   1-249-429-11 CARBON   10K 5% 1/4W   R356   1-249-430-11 CARBON   12K 5% 1/4W   R442   1-249-429-11 CARBON   10K 5% 1/4W   R356   1-249-433-11 CARBON   12K 5% 1/4W   R443   1-249-437-11 CARBON   2K 5% 1/4W   R356   1-249-433-11 CARBON   5K 5% 1/4W   R444   1-249-437-11 CARBON   2K 5% 1/4W   R356   1-249-437-11 CARBON   5K 5% 1/4W   R445   1-249-437-11 CARBON   3X 5% 1/4W   R356   1-249-437-11 CARBON   5K 5% 1/4W   R445   1-249-437-11 CARBON   3X 5% 1/4W   R356   1-249-437-11 CARBON   5K 5% 1/4W   R445   1-249-437-11 CARBON   3X 5% 1/4W   R356   1-249-437-11 CARBON   3X 5% 1/4W   R445   1-249-437-11 CARBON   10K 5% 1/4W   R356   1-249-437-11 CARBON   3X 5% 1/4W   R356   1-249-437-11 CARBON   3X 5% 1/4W   R356   1-249-437-11 CARBON   3X 5% 1/4W   R451   1-249-437-11 CARBON   3X 5% 1/4W   R356   1-249-437-11 CARBON   3X 5% 1/4W   R357   1-249-388-11 CARBON   3X 5% 1/4W   R357   1-249-438-11 CARBON   3X 5% 1/4W   R357   1-249-441-11 CARBON   3X 5% 1/4W   R357   1-249-441-11 CARBON   3X 5% 1/4W   R358   1-249-429-11 CARBON   3X 5% 1/4W   R358	
R350 1-249-435-11 CARBON 33K 5% 1/4W R431 1-247-903-00 CARBON 1M 5% 1/4W R351 1-249-427-11 CARBON 1.5K 5% 1/4W R432 1-249-421-11 CARBON 33.0 5% 1/4W R352 1-249-416-11 CARBON 130K 5% 1/4W R353 1-249-423-11 CARBON 3.3K 5% 1/4W R354 1-249-423-11 CARBON 3.3K 5% 1/4W R355 1-249-423-11 CARBON 3.3K 5% 1/4W R355 1-249-423-11 CARBON 3.3K 5% 1/4W R355 1-249-423-11 CARBON 3.3K 5% 1/4W R355 1-249-423-11 CARBON 3.3K 5% 1/4W R355 1-249-435-11 CARBON 3.3K 5% 1/4W R355 1-249-435-11 CARBON 3.3K 5% 1/4W R356 1-249-431-11 CARBON 3.3K 5% 1/4W R358 1-249-430-11 CARBON 10K 5% 1/4W R358 1-249-430-11 CARBON 10K 5% 1/4W R358 1-249-430-11 CARBON 10K 5% 1/4W R358 1-249-430-11 CARBON 3.3K 5% 1/4W R441 1-249-429-11 CARBON 10K 5% 1/4W R358 1-249-430-11 CARBON 3.3K 5% 1/4W R443 1-249-430-11 CARBON 2.2K 5% 1/4W R351 1-249-433-11 CARBON 3.3K 5% 1/4W R444 1-249-427-11 CARBON 6.8K 5% 1/4W R351 1-249-433-11 CARBON 3.3K 5% 1/4W R445 1-249-433-11 CARBON 3.3K 5% 1/4W R351 1-249-433-11 CARBON 5.8K 5% 1/4W R351 1-249-437-11 CARBON 5.8K 5% 1/4W	
R351 1-249-419-11 CARBON 1.5K 5% 1/4W R431 1-249-426-11 CARBON 5.6K 5% 1/4W R353 1-249-426-11 CARBON 6.8K 5% 1/4W R434 1-249-426-11 CARBON 5.6K 5% 1/4W R354 1-249-426-11 CARBON 3.3K 5% 1/4W R355 1-249-423-11 CARBON 3.3K 5% 1/4W R436 1-249-426-11 CARBON 5.6K 5% 1/4W R355 1-249-435-11 CARBON 3.3K 5% 1/4W R436 1-249-431-11 CARBON 15K 5% 1/4W R356 1-249-435-11 CARBON 3.3K 5% 1/4W R436 1-249-431-11 CARBON 15K 5% 1/4W R357 1-249-435-11 CARBON 100K 5% 1/4W R356 1-249-435-11 CARBON 100K 5% 1/4W R356 1-249-430-11 CARBON 100K 5% 1/4W R442 1-249-429-11 CARBON 100K 5% 1/4W R358 1-249-430-11 CARBON 12K 5% 1/4W R443 1-249-429-11 CARBON 10K 5% 1/4W R351 1-249-438-11 CARBON 12K 5% 1/4W R443 1-249-427-11 CARBON 2K 5% 1/4W R351 1-249-438-11 CARBON 56K 5% 1/4W R445 1-249-427-11 CARBON 3.3K 5% 1/4W R356 1-249-438-11 CARBON 56K 5% 1/4W R445 1-249-427-11 CARBON 3.3K 5% 1/4W R356 1-249-438-11 CARBON 56K 5% 1/4W R445 1-249-427-11 CARBON 3.3K 5% 1/4W R356 1-249-438-11 CARBON 47K 5% 1/4W R448 1-249-427-11 CARBON 3.3K 5% 1/4W R356 1-249-437-11 CARBON 47K 5% 1/4W R448 1-249-427-11 CARBON 10K 5% 1/4W R356 1-249-437-11 CARBON 47K 5% 1/4W R448 1-249-427-11 CARBON 10K 5% 1/4W R356 1-249-437-11 CARBON 47K 5% 1/4W R448 1-249-427-11 CARBON 10K 5% 1/4W R356 1-249-437-11 CARBON 3.9 5% 1/5W R450 1-249-437-11 CARBON 3.8 5% 1/4W R351 1-249-437-11 CARBON 3.9 5% 1/5W R450 1-249-437-11 CARBON 3.8 5% 1/4W R351 1-249-437-11 CARBON 10K 5% 1/4W R351 1-249-437-11 CARBON 3.9 5% 1/5W R450 1-249-437-11 CARBON 3.8 5% 1/4W R351 1-249-437-11 CARBON 10K 5% 1/4W R351 1-249-437-11 CARBON 10K 5% 1/4W R351 1-249-437-11 CARBON 10K 5% 1/4W R450 1-249-437-11 CARBON 5.6 5% 5% 1/4W R351 1-249-437-11 CARBON 10K 5% 1/4W R351 1-249-437-11 CARBON 10K 5% 1/4W R351 1-249-437-11 CARBON 5.0 5% 1/4W R351 1-249-437-11 CARBON 5.0 5% 1/4W R351 1-249-437-11 CARBON 5.0 5% 1/4W R351 1-249-437-11 CARBON 5.0 5% 1/4W R351 1-249-437-11 CARBON 5.0 5% 1/4W R351 1-249-437-11 CARBON 5.0 5% 1/4W R351 1-249-437-11 CARBON 5.0 5% 1/4W R351 1-249-437-11 CARBON 5.0 5% 1/4W R351 1-249-437-11 CARBON 5.0	
### R352	
R353	
R354   1-249-423-11 CARBON   3.3 K 5% 1/4W   R435   1-249-429-11 CARBON   10 K 5% 1/4W   R355   1-249-435-11 CARBON   33 K 5% 1/4W   R436   1-249-437-11 CARBON   15 K 5% 1/4W   R357   1-249-431-11 CARBON   10 K 5% 1/4W   R441   1-249-437-11 CARBON   10 K 5% 1/4W   R442   1-249-437-11 CARBON   10 K 5% 1/4W   R442   1-249-437-11 CARBON   10 K 5% 1/4W   R442   1-249-437-11 CARBON   10 K 5% 1/4W   R443   1-249-437-11 CARBON   22 K 5% 1/4W   R443   1-249-437-11 CARBON   25 K 5% 1/4W   R445   1-249-437-11 CARBON   3.3 K 5% 1/4W   R445   1-249-437-11 CARBON   5.6 K 5% 1/4W   R445   1-249-435-11 CARBON   3.3 K 5% 1/4W   R445   1-249-435-11 CARBON   3.3 K 5% 1/4W   R445   1-249-435-11 CARBON   10 K 5% 1/4W   R363   1-249-437-11 CARBON   47 K 5% 1/4W   R448   1-249-427-11 CARBON   10 K 5% 1/4W   R366   1-249-437-11 CARBON   47 K 5% 1/4W   R449   1-249-437-11 CARBON   20 5% 1/4W   R367   1-249-438-11 CARBON   3.9 5% 1/5W   R451   1-249-437-11 CARBON   3.8 K 5% 1/4W   R451   1-249-427-11 CARBON   3.8 K 5% 1/4W   R451   1-249-437-11 CARBON   3.8 K 5% 1/4W   R451   1-249-427-11 CARBON   3.8 K 5% 1/4W   R451   1-249-437-11 CARBON   3.8 K 5% 1/4W   R452   1-249-427-11 CARBON   3.8 K 5% 1/4W   R453   1-249-437-11 CARBON   3.8 K 5% 1/4W   R451   1-249-437-11 CARBON   3.8 K 5%	
R355 1-249-435-11 CARBON 33K 5% 1/4W R441 1-249-437-11 CARBON 47K 5% 1/4W R357 1-249-441-11 CARBON 10K 5% 1/4W R442 1-249-429-11 CARBON 10K 5% 1/4W R358 1-249-430-11 CARBON 10K 5% 1/4W R443 1-249-429-11 CARBON 10K 5% 1/4W R358 1-249-423-11 CARBON 5.8K 5% 1/4W R443 1-249-427-11 CARBON 6.8K 5% 1/4W R362 1-249-438-11 CARBON 56K 5% 1/4W R445 1-249-427-11 CARBON 3.3K 5% 1/4W R362 1-249-438-11 CARBON 56K 5% 1/4W R445 1-249-435-11 CARBON 3.3K 5% 1/4W R364 1-249-437-11 CARBON 47K 5% 1/4W R364 1-249-437-11 CARBON 47K 5% 1/4W R364 1-249-437-11 CARBON 6.8K 5% 1/4W R365 1-249-437-11 CARBON 47K 5% 1/4W R449 1-249-439-11 CARBON 10K 5% 1/4W R365 1-249-338-11 CARBON 3.9 5% 1/6W R451 1-249-437-11 CARBON 10K 5% 1/4W R367 1-249-338-11 CARBON 3.9 5% 1/6W R451 1-249-419-11 CARBON 1.5K 5% 1/4W R371 1-249-417-11 CARBON 11K 5% 1/4W R451 1-249-419-11 CARBON 1.5K 5% 1/4W R371 1-249-417-11 CARBON 1.2K 5% 1/4W R451 1-249-419-11 CARBON 1.5K 5% 1/4W R373 1-249-418-11 CARBON 1.2K 5% 1/4W R451 1-249-419-11 CARBON 1.5K 5% 1/4W R373 1-249-418-11 CARBON 1.2K 5% 1/4W R453 1-249-435-11 CARBON 3.3K 5% 1/4W R373 1-249-441-11 CARBON 1.2K 5% 1/4W R454 1-249-435-11 CARBON 3.3K 5% 1/4W R375 1-249-441-11 CARBON 1.2K 5% 1/4W R455 1-249-435-11 CARBON 3.3K 5% 1/4W R375 1-249-441-11 CARBON 1.2K 5% 1/4W R455 1-249-435-11 CARBON 3.3K 5% 1/4W R381 1-249-429-11 CARBON 1.0K 5% 1/4W R458 1-249-435-11 CARBON 1.0K 5% 1/4W R381 1-249-429-11 CARBON 1.0K 5% 1/4W R458 1-249-435-11 CARBON 1.2K 5% 1/4W R458 1-249-435-11 CARBON 1.2K 5% 1/4W R381 1-249-429-11 CARBON 1.0K 5% 1/4W R381 1-249-435-11 CARBON 1.0K 5% 1/4W R381 1-249	
R355 1-249-435-11 CARBON 33K 5% 1/4W R441 1-249-437-11 CARBON 47K 5% 1/4W R357 1-249-441-11 CARBON 10K 5% 1/4W R442 1-249-437-11 CARBON 10K 5% 1/4W R358 1-249-430-11 CARBON 10K 5% 1/4W R442 1-249-437-11 CARBON 10K 5% 1/4W R358 1-249-430-11 CARBON 3.3K 5% 1/4W R443 1-249-437-11 CARBON 6.8K 5% 1/4W R352 1-249-438-11 CARBON 56K 5% 1/4W R444 1-249-427-11 CARBON 6.8K 5% 1/4W R352 1-249-438-11 CARBON 56K 5% 1/4W R445 1-249-435-11 CARBON 33K 5% 1/4W R353 1-249-433-11 CARBON 22K 5% 1/4W R354 1-249-437-11 CARBON 6.8K 5% 1/4W R355 1-249-437-11 CARBON 47K 5% 1/4W R448 1-249-427-11 CARBON 10K 5% 1/4W R356 1-249-338-11 CARBON 47K 5% 1/4W R450 1-249-435-11 CARBON 10K 5% 1/4W R357 1-249-338-11 CARBON 3.9 5% 1/6W R451 1-249-437-11 CARBON 22 0 5% 1/4W R357 1-249-338-11 CARBON 3.9 5% 1/6W R451 1-249-437-11 CARBON 1.5K 5% 1/4W R371 1-249-429-11 CARBON 11K 5% 1/4W R450 1-249-437-11 CARBON 1.5K 5% 1/4W R371 1-249-429-11 CARBON 11K 5% 1/4W R450 1-249-437-11 CARBON 1.5K 5% 1/4W R373 1-249-417-11 CARBON 11K 5% 1/4W R451 1-249-419-11 CARBON 1.5K 5% 1/4W R373 1-249-4417-11 CARBON 11K 5% 1/4W R451 1-249-419-11 CARBON 1.5K 5% 1/4W R373 1-249-441-11 CARBON 11K 5% 1/4W R451 1-249-429-11 CARBON 1.5K 5% 1/4W R373 1-249-441-11 CARBON 10K 5% 1/4W R451 1-249-435-11 CARBON 3.3K 5% 1/4W R373 1-249-441-11 CARBON 10K 5% 1/4W R451 1-249-435-11 CARBON 3.3K 5% 1/4W R375 1-249-441-11 CARBON 10K 5% 1/4W R451 1-249-435-11 CARBON 3.3K 5% 1/4W R375 1-249-441-11 CARBON 10K 5% 1/4W R451 1-249-435-11 CARBON 3.3K 5% 1/4W R381 1-249-429-11 CARBON 10K 5% 1/4W R451 1-249-435-11 CARBON 10K 5% 1/4W R381 1-249-429-11 CARBON 10K 5% 1/4W R451 1-249-435-11 CARBON 10K 5% 1/4W R381 1-249-429-11 CARBON 10K 5%	
R357   1-249-430-11 CARBON   10K 5% 1/4W   R442   1-249-429-11 CARBON   10K 5% 1/4W   R358   1-249-430-11 CARBON   12K 5% 1/4W   R443   1-249-423-11 CARBON   22K 5% 1/4W   R444   1-249-427-11 CARBON   22K 5% 1/4W   R445   1-249-427-11 CARBON   33K 5% 1/4W   R445   1-249-428-11 CARBON   33K 5% 1/4W   R445   1-249-435-11 CARBON   33K 5% 1/4W   R445   1-249-435-11 CARBON   31K 5% 1/4W   R364   1-249-437-11 CARBON   47K 5% 1/4W   R448   1-249-429-11 CARBON   10K 5% 1/4W   R365   1-249-427-11 CARBON   47K 5% 1/4W   R448   1-249-429-11 CARBON   10K 5% 1/4W   R366   1-249-427-11 CARBON   47K 5% 1/4W   R450   1-249-435-11 CARBON   22C 5% 1/4W   R366   1-249-437-11 CARBON   33K 5% 1/4W   R450   1-249-435-11 CARBON   33K 5% 1/4W   R367   1-249-388-11 CARBON   33 € 5% 1/4W   R451   1-249-419-11 CARBON   1.5 € 5% 1/4W   R367   1-249-439-11 CARBON   1.5 € 5% 1/4W   R451   1-249-419-11 CARBON   3.5 € 5% 1/4W   R373   1-249-418-11 CARBON   1.5 € 5% 1/4W   R452   1-249-418-11 CARBON   32C 5% 1/4W   R373   1-249-418-11 CARBON   1.2 € 5% 1/4W   R454   1-249-423-11 CARBON   33K 5% 1/4W   R374   1-249-441-11 CARBON   32C 5% 1/4W   R455   1-249-435-11 CARBON   33K 5% 1/4W   R375   1-249-441-11 CARBON   32K 5% 1/4W   R456   1-249-435-11 CARBON   33K 5% 1/4W   R376   1-249-440-11 CARBON   32K 5% 1/4W   R456   1-249-435-11 CARBON   33K 5% 1/4W   R376   1-249-440-11 CARBON   32K 5% 1/4W   R456   1-249-435-11 CARBON   33K 5% 1/4W   R376   1-249-440-11 CARBON   32K 5% 1/4W   R456   1-249-435-11 CARBON   33K 5% 1/4W   R381   1-249-423-11 CARBON   33K 5% 1/4W   R381   1-24	
R357   1-249-431-11   CARBON   10K 5% 1/4W   R442   1-249-429-11   CARBON   10K 5% 1/4W   R443   1-249-423-11   CARBON   12K 5% 1/4W   R443   1-249-423-11   CARBON   22K 5% 1/4W   R444   1-249-427-11   CARBON   22K 5% 1/4W   R445   1-249-427-11   CARBON   32K 5% 1/4W   R445   1-249-428-11   CARBON   32K 5% 1/4W   R446   1-249-428-11   CARBON   10K 5% 1/4W   R448   1-249-428-11   CARBON   10K 5% 1/4W   R448   1-249-429-11   CARBON   10K 5% 1/4W   R449   1-249-429-11   CARBON   22C 5% 1/4W   R450   1-249-437-11   CARBON   47K 5% 1/4W   R450   1-249-435-11   CARBON   32K 5% 1/4W   R451   1-249-435-11   CARBON   33K 5% 1/4W   R451   1-249-435-11   CARBON   33K 5% 1/4W   R451   1-249-435-11   CARBON   33K 5% 1/4W   R451   1-249-439-11   CARBON   33K 5% 1/4W   R451   1-249-439-11   CARBON   32C 5% 1/4W   R371   1-249-449-11   CARBON   1K 5% 1/4W   R452   1-249-436-11   CARBON   32C 5% 1/4W   R373   1-249-418-11   CARBON   1.2K 5% 1/4W   R452   1-249-436-11   CARBON   32C 5% 1/4W   R373   1-249-441-11   CARBON   1.2K 5% 1/4W   R454   1-249-435-11   CARBON   33K 5% 1/4W   R374   1-249-441-11   CARBON   32K 5% 1/4W   R455   1-249-435-11   CARBON   33K 5% 1/4W   R375   1-249-441-11   CARBON   32K 5% 1/4W   R456   1-249-435-11   CARBON   33K 5% 1/4W   R376   1-249-440-11   CARBON   32K 5% 1/4W   R456   1-249-435-11   CARBON   33K 5% 1/4W   R381   1-249-429-11   CARBON   10K 5% 1/4W   R458   1-249-435-11   CARBON   12K 5% 1/4W   R381   1-249-429-11   CARBON   33K 5% 1/4W   R381   1-249-429-	
R358 1-249-430-11 CARBON 12K 5% 1/4W R443 1-249-427-11 CARBON 22K 5% 1/4W R361 1-249-423-11 CARBON 3.3K 5% 1/4W R444 1-249-427-11 CARBON 6.8K 5% 1/4W R45 1-249-438-11 CARBON 56K 5% 1/4W R445 1-249-438-11 CARBON 33K 5% 1/4W R363 1-249-433-11 CARBON 47K 5% 1/4W R446 1-249-427-11 CARBON 1K 5% 1/4W R364 1-249-427-11 CARBON 47K 5% 1/4W R448 1-249-429-11 CARBON 10K 5% 1/4W R365 1-249-437-11 CARBON 47K 5% 1/4W R448 1-249-429-11 CARBON 220 5% 1/4W R366 1-249-437-11 CARBON 47K 5% 1/4W R450 1-249-439-11 CARBON 220 5% 1/4W R367 1-249-388-11 CARBON 3.9 5% 1/6W R450 1-249-435-11 CARBON 3.8 5% 1/4W R371 1-249-417-11 CARBON 1K 5% 1/4W R450 1-249-417-11 CARBON 1.5 5% 1/4W R372 1-249-417-11 CARBON 1K 5% 1/4W R451 1-249-419-11 CARBON 1.5 5% 1/4W R373 1-249-418-11 CARBON 1K 5% 1/4W R453 1-249-418-11 CARBON 820 5% 1/4W R373 1-249-418-11 CARBON 1K 5% 1/4W R453 1-249-428-11 CARBON 820 5% 1/4W R373 1-249-418-11 CARBON 1L 2K 5% 1/4W R455 1-249-423-11 CARBON 33K 5% 1/4W R375 1-249-441-11 CARBON 10K 5% 1/4W R455 1-249-435-11 CARBON 33K 5% 1/4W R375 1-249-441-11 CARBON 10K 5% 1/4W R456 1-249-435-11 CARBON 33K 5% 1/4W R376 1-249-429-11 CARBON 10K 5% 1/4W R456 1-249-435-11 CARBON 33K 5% 1/4W R376 1-249-429-11 CARBON 10K 5% 1/4W R456 1-249-429-11 CARBON 10K 5% 1/4W R381 1-249-429-11 CARBON 10K 5% 1/4W R381 1-249-429-11 CARBON 10K 5% 1/4W R381 1-249-429-11 CARBON 10K 5% 1/4W R381 1-249-429-11 CARBON 10K 5% 1/4W R381 1-249-429-11 CARBON 10K 5% 1/4W R381 1-249-429-11 CARBON 10K 5% 1/4W R381 1-249-429-11 CARBON 10K 5% 1/4W R381 1-249-429-11 CARBON 10K 5% 1/4W R381 1-249-429-11 CARBON 10K 5% 1/4W R381 1-249-429-11 CARBON 10K 5% 1/4W R381 1-249-429-11 CARBON 10K 5% 1/4W R381 1-249-429-11 CARBON 10K 5% 1/4W R381 1-249-429-11 CARBON 10K 5% 1/4W R381 1-249-429-11 CARBON 10K 5% 1/4W R381 1-249-429-11 CARBON 10K 5% 1/4W R381 1-249-429-11 CARBON 10K 5% 1/4W R381 1-249-429-11 CARBON 10K 5% 1/4W R381 1-249-439-11 CARBON 10K 5% 1/4W R381 1-249-4	
R361   1-249-423-11 CARBON   3.3 x 5% 1/4W   R444   1-249-427-11 CARBON   6.8 x 5% 1/4W   R445   1-249-435-11 CARBON   33 x 5% 1/4W   R445   1-249-435-11 CARBON   33 x 5% 1/4W   R363   1-249-437-11 CARBON   47 x 5% 1/4W   R448   1-249-429-11 CARBON   10 x 5% 1/4W   R448   1-249-429-11 CARBON   10 x 5% 1/4W   R449   1-249-429-11 CARBON   22 x 5% 1/4W   R449   1-249-429-11 CARBON   22 x 5% 1/4W   R449   1-249-429-11 CARBON   22 x 5% 1/4W   R449   1-249-435-11 CARBON   22 x 5% 1/4W   R366   1-249-437-11 CARBON   47 x 5% 1/4W   R450   1-249-435-11 CARBON   33 x 5% 1/4W   R367   1-249-388-11 CARBON   3.9 5% 1/6W   R451   1-249-419-11 CARBON   1.5 x 5% 1/4W   R371   1-249-417-11 CARBON   10 x 5% 1/4W   R451   1-249-419-11 CARBON   1.5 x 5% 1/4W   R372   1-249-417-11 CARBON   1.5 x 5% 1/4W   R453   1-249-427-11 CARBON   820 5% 1/4W   R373   1-249-440-11 CARBON   82 x 5% 1/4W   R454   1-249-423-11 CARBON   3.3 x 5% 1/4W   R374   1-249-441-11 CARBON   82 x 5% 1/4W   R455   1-249-435-11 CARBON   3.3 x 5% 1/4W   R375   1-249-441-11 CARBON   82 x 5% 1/4W   R456   1-249-435-11 CARBON   33 x 5% 1/4W   R377   1-247-864-11 CARBON   24 x 5% 1/4W   R456   1-249-435-11 CARBON   33 x 5% 1/4W   R381   1-249-423-11 CARBON   24 x 5% 1/4W   R458   1-249-430-11 CARBON   10 x 5% 1/4W   R381   1-249-423-11 CARBON   24 x 5% 1/4W   R458   1-249-430-11 CARBON   10 x 5% 1/4W   R381   1-249-423-11 CARBON   24 x 5% 1/4W   R758   1-249-430-11 CARBON   10 x 5% 1/4W   R758   1-249-430-11 CARBON   10 x 5% 1/4W   R758   1-249-430-11 CARBON   10 x 5% 1/4W   R758   1-249-430-11 CARBON   10 x 5% 1/4W   R758   1-249-430-11 CARBON   10 x 5% 1/4W   R758   1-249-430-11 CARBON   10 x 5% 1/4W   R758   1-249-430-11 CARBON   10 x 5% 1/4W   R758   1-249-430-11 CARBON   10 x 5% 1/4W   R758   1-249-430-11 CARBON   10 x 5% 1/4W   R758   1-249-430-11 CARBON   10 x 5% 1/4W   R758   1-249-430-11 CARBON   10 x 5% 1/4W   R758   1-249-430-11 CARBON   10 x 5% 1/4W   R758   1-249-430-11 CARBON   10 x 5% 1/4W   R758   1-249-430-11 CARBON   10 x 5% 1/4W   R758   1-249-4	
R362 1-249-438-11 CARBON 56K 5% 1/4W R445 1-249-435-11 CARBON 33K 5% 1/4W R363 1-249-437-11 CARBON 47K 5% 1/4W R448 1-249-429-11 CARBON 10K 5% 1/4W R365 1-249-437-11 CARBON 47K 5% 1/4W R449 1-249-409-11 CARBON 220 5% 1/4W R366 1-249-437-11 CARBON 47K 5% 1/4W R450 1-249-437-11 CARBON 33K 5% 1/4W R367 1-249-388-11 CARBON 3.9 5% 1/6W R451 1-249-419-11 CARBON 33K 5% 1/4W R371 1-249-417-11 CARBON 10K 5% 1/4W R451 1-249-419-11 CARBON 1.5 K 5% 1/4W R372 1-249-417-11 CARBON 11K 5% 1/4W R453 1-249-418-11 CARBON 3.3 K 5% 1/4W R374 1-249-4418-11 CARBON 12K 5% 1/4W R455 1-249-435-11 CARBON 3.3 K 5% 1/4W R375 1-249-441-11 CARBON 10K 5% 1/4W R456 1-249-435-11 CARBON 33K 5% 1/4W R375 1-249-441-11 CARBON 10K 5% 1/4W R456 1-249-435-11 CARBON 33K 5% 1/4W R376 1-249-441-11 CARBON 10K 5% 1/4W R456 1-249-435-11 CARBON 33K 5% 1/4W R377 1-247-864-11 CARBON 24K 5% 1/4W R458 1-249-435-11 CARBON 10K 5% 1/4W R381 1-249-429-11 CARBON 24K 5% 1/4W R458 1-249-430-11 CARBON 10K 5% 1/4W R381 1-249-429-11 CARBON 22K 5% 1/4W R708 1-249-431 CARBON 10K 5% 1/4W R383 1-249-429-11 CARBON 2.2 K 5% 1/4W R708 1-249-429-11 CARBON 10K 5% 1/4W R383 1-249-429-11 CARBON 2.2 K 5% 1/4W R788 1-249-429-11 CARBON 10K 5% 1/4W R791 1-249-389-11 CARBON 10K 5% 1/4W R788 1-249-429-11 CARBON 10K 5% 1/4W R7	
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R402 1-249-422-11 CARBON 2.7K 5% 1/4W R906 1-249-431-11 CARBON 15K 5% 1/4W	
R403 1-249-437-11 CARBON 47K 5% 1/4W R907 1-249-431-11 CARBON 15K 5% 1/4W	
R404 1-249-422-11 CARBON 2.7K 5% 1/4W R910 1-249-413-11 CARBON 470 5% 1/4W	
R409 1-249-433-11 CARBON 22K 5% 1/4W	
R410 1-249-427-11 CARBON 6.8K 5% 1/4W	
R411 1-249-441-11 CARBON 100K 5% 1/4W	
R412 1-249-430-11 CARBON 12K 5% 1/4W	

The components identified by mark A or dotted line with mark A are critical for safety.

Replace only with part number specified.

Ref. No	. Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
		< VARIABLE RESISTOR >		ANT1		ANTENNA, TELESCOPIC	
RV101	1 220 005 00	DEC ADI METALOGN				FUSE (0.8A) (E/AUS/EA)	
RV101		RES, ADJ, METAL22K RES, ADJ, METAL22K			1-532-215-00	HEAD, ERASE (886-01-24) (D	ECV D)
RV321		RES, ADJ, CARBON 100				HEAD, MAGNETIC (PB) (DECK	
RV331		RES. ADJ. CARBON 100				HEAD, MAGNETIC (REC/PB) (D	
RV341		RES, ADJ, CARBON 22K		111111111111111111111111111111111111111	1 040 424 21	TENDI MACRETTO (REO/TD) (D	LOK by
			-	\$1001	1-571-036-11	SWITCH, LEAF (DETECTION SY	W) (Cr02)
RV361	1-238-019-11	RES, ADJ, CARBON 47K				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(DECK A)
RV421		RES. ADJ. CARBON 100		\$1002	1-570-430-11	SWITCH, LEAF (PLAY) (DECK	A)
RV431		RES, ADJ, CARBON 100		\$1003	1-570-715-11	SWITCH, LEAF (MOTOR) (DECK	A)
RV441		RES, ADJ, CARBON 22K		\$1004	1-571-036-11	SWITCH, LEAF (DETECTION S)	
RV461	1-238-019-11	RES, ADJ, CARBON 47K		01005			(DECK B)
		< RELAY >		S1005 S1006		SWITCH, LEAF (PLAY) (DECK	
		NELAT >		\$1000		SWITCH, LEAF (REC) (DECK B) SWITCH, LEAF (MOTOR) (DECK	
RY301	1-515-614-21	RFIAV				TRANSFORMER, POWER (E/AUS,	
						TRANSFORMER, POWER (AEP/E	
		< SWITCH >			11	VINELL TORER (MET/E	-7 1 17 07
S361	1-554-708-31	SWITCH, SLIDE (ISS)		******	******	**********	*****
0001	1 004 130 01	OH110H, OE1DE (100)				ACCESSORY & PACKING MATER	IAI
		< TRANSFORMER >				********	
					1-465-249-11	REMOTE COMMADER (RM-S190)	
T361	1-433-347-11	TRANSFORMER, BIAS OSCILLA	TION	Δ	1-569-007-11	ADAPTER, CONVERSION 2P (E)	1
				Δ		ADAPTER, CONVERSION 2P (AI	
		TRANSFORMER, POWER (E/AUS				COVER, BATTERY (for RM-S1	90)
T901	△ 1-449-618-11	TRANSFORMER, POWER (AEP/	(E/1T/G)		3-694-922-01	SHEET, PROTECTION	
		< TERMINAL >			3-752-778-11	MANUAL. INSTRUCTION (AEP/	E/AUS/EA)
TD004	4 500 307 00	TERMINAL BALER BUSINESS				(ENGLISH/FRENCH/SPAN	
TB001 TB001		TERMINAL BOARD, PUSH 2P (A				MANUAL, INSTRUCTION (AEP/	
10001	1-330-108-00		/AUS/E/EE/EA)			RMAN/DUTCH/SWEDISH/ITALIAN,	PORTUGUESE)
		(ALI	/ NUS/ C/ EC/ EA)		3-132-118-31	MANUAL. INSTRUCTION (EE) (ENGLISH/GERMAN/PO	LOU /DHOOLAN)
TB002	1-563-199-21	CONNECTOR, PAL				(ENGLISH) GERMAN, FO	LISH/ NUSSIAN)
TB101	* 4-925-530-01			*	4-942-340-01	CUSHION	
TB701	1-536-705-00	TERMINAL BOARD (SP) (SPEAK	ER)			INDUVIDUAL CARTON (FH-411)	R) (F/FA)
						INDUVIDUAL CARTON (FH-411)	
		PIN. CONNECTOR 2P				(AE	P/EE/AUS/G)
TP301	* 1-560-061-00	PIN. CONNECTOR 3P					
		< CRYSTAL >		*****	******	*********	******
		CONTOTAL >				HARDWARE LIST	
X101	1-577-075-11	OSCILLATOR, CERAMIC (19k)	lz)	11.4		*********	
ችቶቶኖኖኖ	*****	*********		#1		SCREW +BTP 2.6X8 TYPE2 N	-\$
ጥጥተተ <b></b> ቸ	<b>ተ</b> ተተቀቀቀቀ	*****************	********	#2 #3		SCREW +BVTT 3X6 (S)	
		MISCELLANEOUS		#3 #4		SCREW +BVTT 3X8 (S) SCREW +B 3X6	
		******		#5		SCREW +B 3X12	
				#6		SCREW +BVTP 3X16 TYPE2 IT	-3
18		CORD, POWER (E)		#7		SCREW +BVTP 3X10 TYPE2 N-	•
18		CORD, POWER (AEP/EE/EA/IT	/G)	#8		SCREW +PS 2.6X4	
18		CORD, POWER (AUS)		#9	7-685-133-19	SCREW +P 2.6X6 TYPE1	
68		A BOARD (DECK B)		#10		STOP RING 3. O. TYPE -E	
68	1-631-563-11	B BOARD (DECK A)		#11		SCREW, TOTSU P 2X8	
				#12		SCREW +P 2X3	- >
			. 1	#13	1-685-782-01	SCREW +PTT 2X5 (S) (DECK	В)
						The components iden  A or dotted line w critical for safety. Replace only with p	ith mark ∧ are
						specified.	

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# HST-H411

# SONY. SERVICE MANUAL

AEP Model E Model Saudi Arabia Model Australian Model

### **CORRECTION-1**

Correct your service manual as shown below.

#### indicates corrected portion.

Page		II.	ICORRECT	CORRECT				
	No.	Part No.	Description	No.	Part No.	Description		
				34	4-928-659-51	PLATE(SAT) ,ORNAMENTAL (E,Saudi Arabia,Australian)		
				34	4-928-659-61	•		
23		3 5 1 2	9 10 12 11 12 11 1 1 1 1 1 1 1 1 1 1 1 1		34 5	3 3 10 11 12 11 12 13 8 13		

# SS-H311/H313/H414-2

### **SERVICE MANUAL**

REVISED

Discard SS-H311/H313/H414-2 Service Manual (No. 9-956-134-11, 9-956-134-12) previously issued. This Service Manual contains it.

#### **SPECIFICATIONS**

Speaker system Speaker units 2 way 2 speaker system Woofer: 14 cm dia., cone type

Enclosure type Frequency range Sensitivity Tweeter: 5 cm dia., cone type Bass reflex 70 Hz – 20 kHz

88 dB/W/m 6 ohms

 Impedance
 6 ohms

 Dimensions
 Approx. 185 × 270 × 220 mm (w/h/d)

Weight

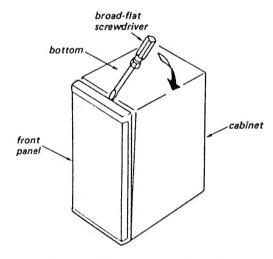
 $(7^{1}/4 \times 10^{5}/6 \times 8^{3}/4 \text{ inches})$ Approx. 2.9 kg (6 lb 6 oz) net per speaker



Canadian Model
ss-H414-2
AEP Model
Australian Model
ss-H414-2
ss-H311
E Model
ss-H311/H313/H414-2

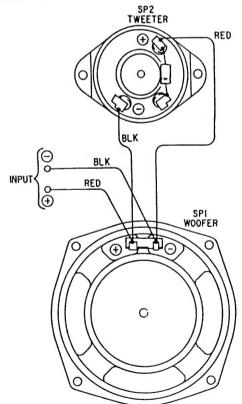
- · SS-H311 is the speaker system in FH-311.
- SS-H313 is the speaker system in FH-313R  $\rm II$ .
- SS-H414-2 is the speaker system in FH-313R II and FH-414 II.

#### 1. FRONT PANEL REMOVAL



Note: Be careful not to scratch the cabinet.

#### 2. WIRING DIAGRAM

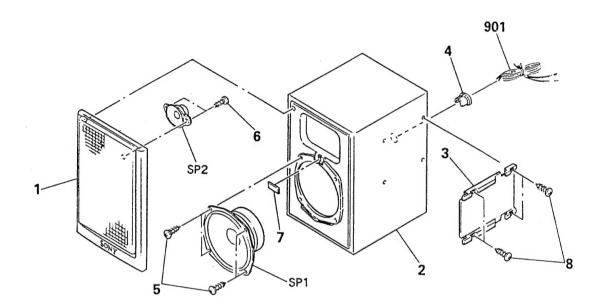




#### 3. EXPLODED VIEW AND PARTS LIST

#### NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be antici-pated when ordering these items.
- Due to standardization, parts with part number suffix XX and X may be dif-ferent from the parts specified in the components used on the set.



No.	Part No.	Description
1	X-4941-135-2 X-4929-625-1	(H311) PANEL ASSY, FRONT (H313/H414-2) PANEL ASSY, FRONT
2	X-4943-030-1	(H311)··· CABINET ASSY (L), SPEAKER
	X-4943-031-1	(H311) · · · CABINET ASSY (R), SPEAKER
	X-4929-626-1	(H313/H414-2)··· CABINET ASSY, SPEAKER
3	4-942-780-01 4-929-606-01	(H311)PANEL, SIDE (H313/H414-2)PANEL, SIDE
4	4-870-003-00	CLIPPER, CORD
5	4-874-614-11	SCREW (4) (3.5X14), TAPPING
6	7-685-646-79	SCREW +BVTP 3X8 TYPE2 SLIT
7	9-911-844-XX	PACKING
8	4-874-614-61	SCREW (4) (3.5X16), TAPPING

No.	Part No.	Description
901	1-575-228-11	CORD, SPEAKER
SP1 SP2	1-544-237-11 1-544-236-11	SPEAKER (WOOFER) SPEAKER (TWEETER)

#### ACCESSORY & PACKING MATERIAL

\*4-857-137-01 (H313/H414-2)··· CUSHION
4-920-151-01 (H313/H414-2)...
SHEET, PROTECTION

9-956-134-13

**Sony Corporation**